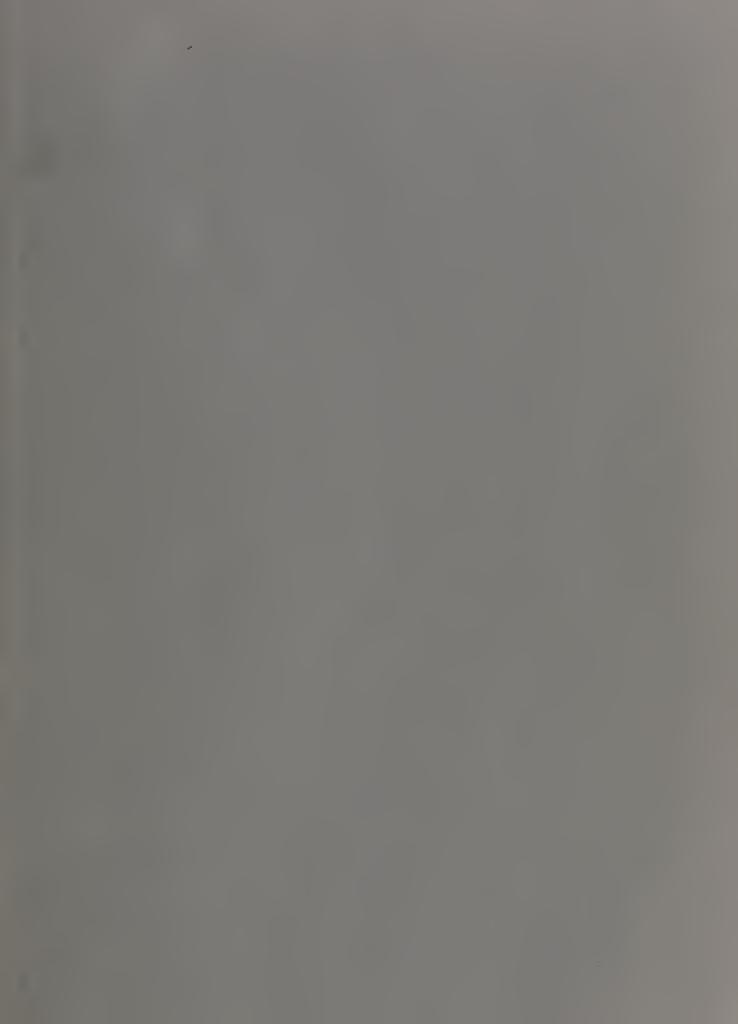
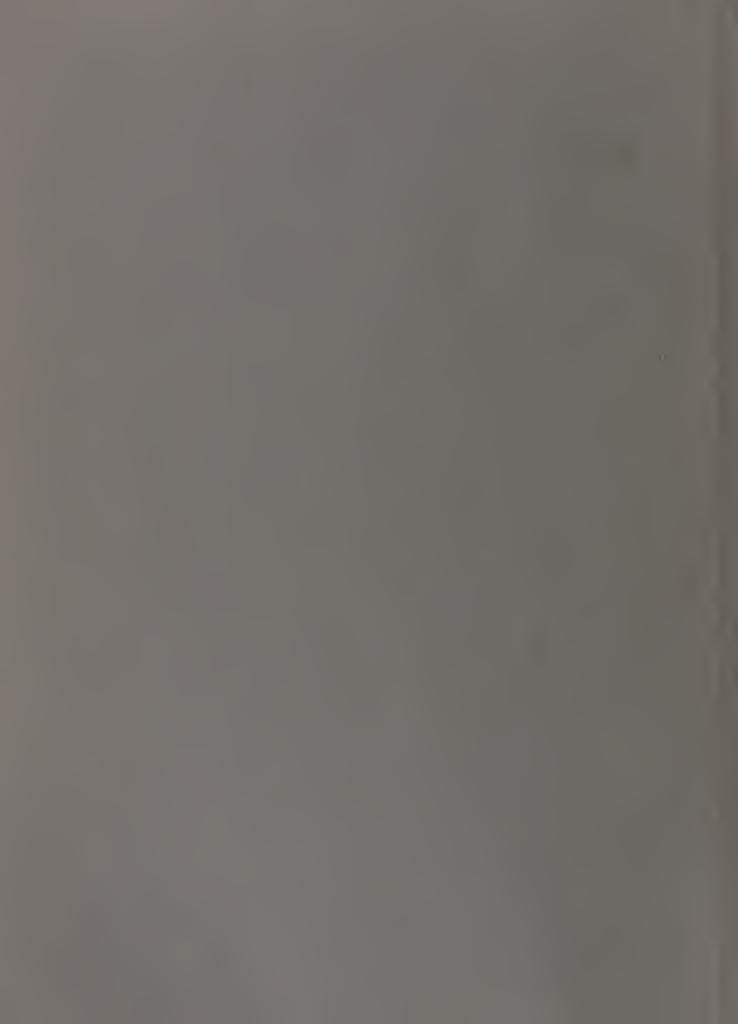
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THE RESOURCES AGENCY OF CALIFORNIA partment of Water Resources

BULLETIN No. 94-3

LAND AND WATER USE IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Volume 1: Text

Preliminary Edition

SEPTEMBER 1963

HUGO FISHER

Administrator
The Resources Agency of California

EDMUND G. BROWN
Governor
State of California

WILLIAM E. WARNE

Director

Department of Water Resources



THE RESOURCES AGENCY OF CALIFORNIA Department of Water Resources

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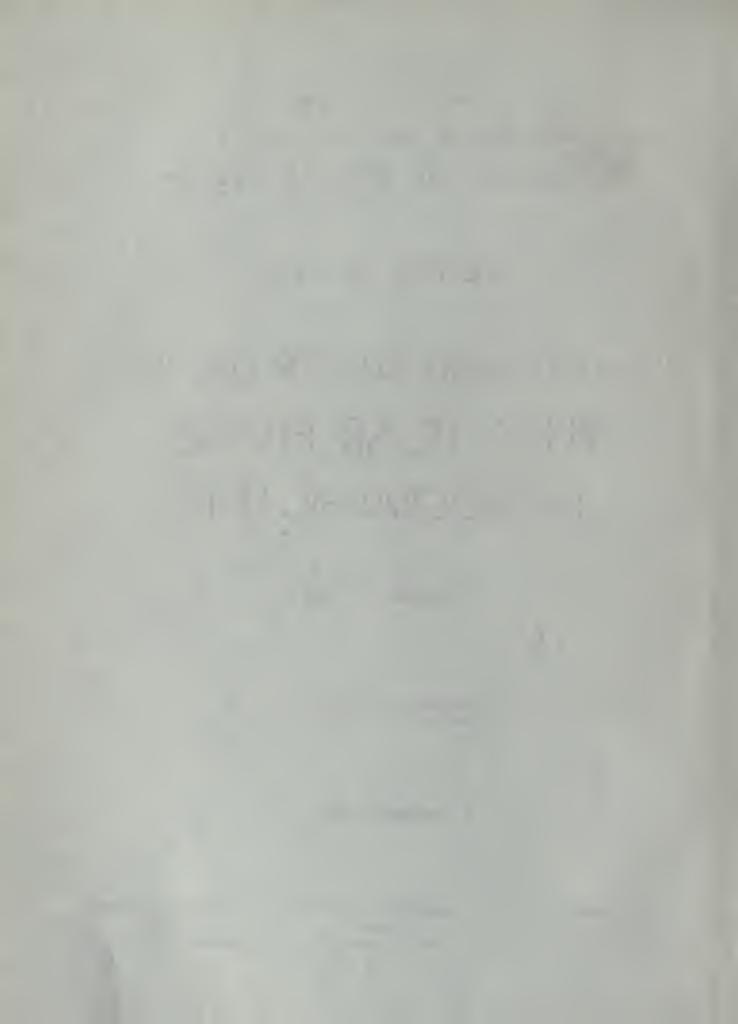


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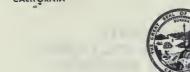
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ADDRESS REPLY TO P. O. Box 388 Sacramento 2, Calif.





THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

1120 N STREET, SACRAMENTO

June 27, 1963

Honorable Edmund G. Brown, Governor, and Members of the Legislature of the State of California

Gentlemen:

IAM E. WARNE

ter Resources BOTT GOLDBERG **Deputy Director** NALD C. PRICE y Director Policy LY GARDNER puty Director

RED R. GOLZÉ

nief Engineer

I have the honor to transmit herewith preliminary report Bulletin No. 94-3, the third of a series of reports of the Department of Water Resources which present detailed basic data relative to land and water use and apparent water rights within certain hydrographic units of the State. This report, entitled "Land and Water Use in Yuba-Bear Rivers Hydrographic Unit," presents results of studies conducted pursuant to legislation sponsored by Senator Edwin J. Regan and codified under Section 232 of the Water Code. This series, when complete, will form an invaluable reference of the water resources of the State in relation to the various classes and uses of land resources.

The data contained in this series of reports provide a basis for estimates of the amount of water which originates within each watershed, the amount which can be used beneficially within each area, and the amount of surplus or deficiency, therein. These estimates are being included in the staging of projects to develop most efficiently the water resources of the State.

The data presented in this bulletin will provide a factual basis for decisions of concerned interests regarding the development and use of the water resources of the Yuba-Bear Rivers Hydrographic Unit. In addition, the bulletin includes notes on the history, natural features, climate and economy of the unit.

All public and private agencies, local interests, and individuals who may be concerned with the information presented herein are invited to submit their comments. A public hearing will be held after due notice to receive comments which will be considered in preparing the final report.

> Sincerely yours, William & Warm

Director

STATE OF CALIFORNIA THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

EDMUND G. BROWN, Governor
HUGO FISHER, Administrator, The Resources Agency of California
WILLIAM E. WARNE, Director, Department of Water Resources
ALFRED R. GOLZE, Chief Engineer
JOHN R. TEERINK, Assistant Chief Engineer

The investigation leading to this report
was conducted by the
Delta Branch
under the direction of

Statewide aspects of the
Water Requirements and Project Staging Program
are coordinated under the direction of the
Division of Resources Planning

William L. Berry. Division Engineer Meyer Kramsky Chief, Statewide Investigations Branch Ralph G. Allison, Acting Chief, Planning Investigations Section

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WILLIAM M. CARAH Executive Secretary

GEORGE B. GLEASON Principal Engineer



ACKNOWLEDGMENT

The Department of Water Resources gratefully acknowledges information contributed by the numerous water users and residents of the Yuba-Bear Rivers Hydrographic Unit and various agencies of the federal, state, and local governments.

Special mention is made of the helpful cooperation of the farm advisors of Nevada, Placer, and Yuba Counties; Pacific Gas and Electric Company; Nevada Irrigation District; Placer County Water Agency; Nevada County Water Resources Committee; and Yuba County Water Agency.

FOREWORD

In 1956, the State Legislature declared "that in providing for the full development and utilization of the water resources of this State it is necessary to obtain for consideration by the Legislature and the people, information as to the water which can be made available for exportation from the watersheds in which it originates without depriving those watersheds of water necessary for beneficial uses therein." The Department of Water Resources was, therefore, authorized and directed to conduct such investing gations as necessary to compile this information. To do so, the department began its statewide inventory of water resources and water requirements as outlined in the authorizing legislation (Water Code Section 232).

For purposes of this inventory, the State has been divided into major hydrographic areas. These areas, in turn, have been subdivided into hydrographic units generally comprising watersheds of individual rivers. Basic data, consisting of land and water use, classification of lands, and streamflow measurements, are collected for each hydrographic unit. To date, this activity has been concentrated mainly in northern watersheds. Results of this inventory will be presented in two series of reports covering (1) land and water use, and (2) water resources and water requirements.

The data on land and water use, together with land classification, are being published as the Bulletin 94 series; one for each hydrographic unit. This report covering the Yuba-Bear Rivers Hydrographic Unit is the third in the series. As the data relative to particular hydrographic units are published they become available for general studies and project investigations, not only by the department, but by all other parties concerned with the watersheds covered. When completed, this series of bulletins will provide detailed data for the whole State.

A second series of reports, each covering one or more hydrographic units, will include determinations of the available water resources and future requirements of those areas. The water resources will be determined from the records of older stream gaging stations and a number of new stations mainly on smaller streams not previously measured. The determination of water requirements will be based on land use patterns projected for specific points of time. These projections, in turn, will be based on the land and water use and land classification data, such as contained herein, and other available information.

Although the data developed by this inventory are to be used throughout the department's planning activities, they are most urgently needed for the staging of water projects. For this reason, the development of these data and their application to the timing of projects were combined in the Water Requirements and Project Staging program in 1961. Under this program, determinations of the quantities of water available, and the time, place, and magnitude of the future water needs of the entire State are combined in the formulation of a sequence of projects to meet those needs. An interim staging report will be published in 1963-64.



CHAPTER I. INTRODUCTION

This bulletin presents basic data on land and water use in the Yuba River and Bear River watersheds and adjacent lands above the Sacramento Valley floor. This area is designated herein as the Yuba-Bear Rivers Hydrographic Unit. The data cover present land and water use, classification of lands, systems used to divert surface stream waters, histories of diversions, apparent water rights pertinent to each diversion, purpose and extent of use of diversions, seasonal quantities of water diverted during part or all of the years 1957 and 1958, and studies of consumptive use of water in selected areas of the unit. A general description and a brief history of the area are also included.

These basic data were gathered during the period 1956-58 in compliance with Chapter 61, Statutes of 1956, as amended by Chapter 2025, Statutes of 1959, and codified in Section 232 of the Water Code of the State of California. The text of Section 232, with a discussion of its history and implications, is included in this bulletin as Appendix A.

These data will provide the basis for a future determination of quantities of water reasonably required for future beneficial use within the Yuba-Bear Rivers Hydrographic Unit. The determinations will be based on estimates of (1) future land use, (2) economic patterns, (3) populations, (4) industrial and agricultural development, and (5) recreational needs.

The data presented herein have been reviewed in preliminary form by local water users and officials representing Placer, Nevada, Yuba, and Sierra Counties. Placer County data received review from Placer County Water Agency, Placer County Farm Advisor, Placer County Planning Commission, and local water users; Nevada County data received review from Nevada County Water Resources Committee, Nevada County Farm Advisor, and local water users; Yuba County data received review from the Water Committee of the Yuba County Board of Supervisors and the Yuba County Farm Advisor; and Sierra County data received review from the Sierra County Board of Supervisors. These groups and individuals submitted suggested changes which were reviewed in the field and adjustments made where warranted.

Organization of Report

This bulletin consists of five chapters, four appendixes and six plates. Chapter I contains a general description of the Yuba-Bear Rivers Hydrographic Unit. Chapter II, "Water Use," includes data on surface water diversion systems, related water rights information, measurements of quantities of water diverted, and information on consumptive use studies. Chapter III, "Land Use," includes a history of land use within the unit and tables of present land use. Maps prepared in connection with Chapters II and III delineate the areas of various present land uses, locations of diversion systems, and areas where consumptive use studies were made. Chapter IV,

"Land Classification," includes a tabulation of lands classified with regard to their potential for irrigated agriculture and for recreational purposes. Maps prepared for this chapter delineate the respective classes of land grouped into several major categories. Chapter V, "Summary," summarizes the report.

Appendix A presents the text of Section 232 of the California Water Code and a discussion of the pertinent responsibilities and work program of the Department of Water Rescurces. Appendix B is a bibliography of publications pertinent to the Yuba-Bear Rivers Hydrographic Unit. Appendix C presents a short summary of California water law, a review of litigation involving water rights in the Yuba-Bear Rivers Hydrographic Unit, and a tabulation of applications to appropriate water in the unit. Appendix D presents details of diversions which could not be adequately described in tables contained in Chapter II.

General Description of Area

Location

The Yuba-Bear Rivers Hydrographic Unit, shown on Plate 1, "Location of Unit," lies within the Sacramento River Basin in portions of Butte, Nevada, Placer, Plumas, Sierra, and Yuba Counties. The hydrographic unit contains 1,955 square miles and is drained by the Yuba River, the Bear River, and minor streams between the Yuba River on the north and Miners Ravine on the south. The two rivers meander on a generally westerly course to their terminations at the Feather River.

The minor streams south of the Bear River drain to the Sacramento River.

The unit is bounded by the watersheds of the Feather River on the north, the Truckee River on the east, and the American River on the south. On the west it is bounded by the Sacramento Valley floor, defined in part by the western boundaries of Beale Air Force Base, Nevada Irrigation District, and the City of Lincoln. Between Lincoln and Roseville, the edge of the valley floor is defined by an irregular line which approximates the 200-foot contour. The more important minor streams draining the foothill area, but not joining the Yuba or Bear Rivers within the unit boundaries, include French Dry Creek, Coon Creek, Auburn Ravine, Antelope Creek, and Miners Ravine. The unit boundary is shown in detail on the series of sheets comprising Plate 2, "Land and Water Use in Yuba-Bear Rivers Hydrographic Unit."

For purposes of convenience and utility in reporting data, the unit has been subdivided into 22 subunits.

Locations of these subunits are shown on Plate 1, and the area of each is shown in Table 1.

TABLE I

AREAS OF SUBUNITS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

:	Butte County	Nevada County	Placer County	Plumas Caunty	Sierra County	Yuba County	Tat	Tatal area
Subunit	(in acres)	(in ocres)	(In acres)	(in acres)	(in acres)	(in acres)	In acres	In equare miles
Allegbany	0	40,500	.0	٥	45,900	0	96,400	135
Auburn Ravine	0	0	23,600	0	0	0	23,600	37
Bullards Bar	300	0	0	٥	2,100	50,100	52,500	82
Camp Beale	0	0	٥	0	0	27,500	27,500	43
Camp Far West	0	20,800	16,100	0	0	14,200	41,100	₫
Combie	0	13,900	17,200	0	0	0	31,100	64
Coon Creek	0	0	54,500	٥	٥	0	54,500	85
Deer Creek	0	57,000	0	0	٥	200	57,200	88
Donner Pass	0	115,100	11,500	0	0	0	126,600	198
Dry Creek	0	38,600	0	0	0	19,600	58,200	22
Dutch Flat	0	23,100	13,700	0	0	٥	36,800	57
French Correl	0	42,800	0	0	0	0	42,800	19
French Dry Creek	006	006'9	0	0	0	91,400	99,200	155
Goodyears Bar	0	0	0	0	92,300	009	92,900	145
Greenhorn Creek	0	28,000	٥	0	٥	0	28,000	41
La Porte	0	0	٥	11,800	55,800	10,600	78,200	122
Orchard-Pleasant Grove Creeks	0	0	12,900	0	0	0	12,900	80
Pike	0	19,800	0	0	23,100	26,100	000'69	108
Rocklin	0	0	36,700	0	0	٥	36,700	57
Sierra City	0	0	٥	0	90,200	٥	90,200	141
Washington	0	26,000	٥	0	0	0	26,000	88
Wolf Creek	0	149,800	0	0	0	0	169,800	78
TOTAL	1,200	512,300	186,200	11,800	309,400	230,300	1,251,200	1,955

Historical and Present Development

Rivers Hydrographic Unit parallels that of the California pioneers and gold miners. Many of the pioneers came west across the Sierra Nevada through this area in the latter 1840's, and the gold miners came soon thereafter. The first recorded explorations into the unit were made in about 1839 by John A. Sutter, and were confined largely to the lower foothills. The first crossing of the Sierra Nevada was made by a pioneer party headed for Sutter's Fort in 1844. In the same year the first settlement in this area was made on the north bank of the Bear River at Johnson's Crossing, located near the western boundary of the unit.

The discovery of gold at Coloma, on the South Fork of the American River in January 1848, caused a great influx of people into the Mother Lode region of California, which includes most of the hydrographic unit. These early gold seekers obtained gold from the shallow river sands and gravels by digging the flakes of gold from crevices in the bedrock of streambeds. During the period from 1848 to the early 1850's there was a very rapid advance in methods and technology, and this crude method was soon followed by the use of the miner's pan and later in turn by the miner's cradle, the long tom, and the miner's sluice box. Later the ground-sluicing method and finally hydraulic mining were developed. These improved methods were required as the easy-to-obtain shallow river

gravels became exhausted and it was necessary to wash larger and larger amounts of gravel for profitable operation. Each of the new methods required an increasingly large amount of water.

Ground sluicing and hydraulic mining developed when it was discovered that ancient sidehill gravel deposits contained gold. By the ground-sluicing method a stream of water was brought to the gravel bank and allowed to flow over its face and carry loosened gravel to a sluice below. This method brought about the discovery of hydraulic mining in 1853, just north of Nevada City by Edward E. Mattison, who found that by using a hose and nozzle a stream of water under pressure could be used to undermine and wash the gravel into sluice boxes. This was a great improvement over the other methods, and its use started the construction of a great system of reservoirs and canals needed to supply water for dozens of large mines in the Sierran Gold Belt.

Hydraulic mining was a boon to gold mining but was a great detriment to agriculture and to navigation on navigable streams in the Sacramento Valley. Large volumes of hydraulic mining debris were discharged into stream channels and by 1858 some of the debris reached lower agricultural lands on the Yuba River. By 1879 debris had caused the low-water plain at Sacramento to rise 5 to 5-1/2 feet. The damage done by the mining debris resulted in considerable litigation and two injunctions which were obtained practically ended hydraulic mining in the Sacramento River Basin. In 1882 an

injunction was secured in the Superior Court in Sacramento
County against the Gold Run Ditch and Mining Company, and on
January 7, 1884, the Federal Court granted an injunction
against the North Bloomfield Gravel and Mining Company, et al.
In this federal case, Wooddruff v. North Bloomfield Gravel and
Mining Company, et al., Judge Lorenzo Sawyer's decision prohibited all hydraulic mining in areas tributary to the Sacramento
River, except that done behind a retaining wall or dam. Very
few hydraulic mines continued in operation after that time.

In 1893 the United States Congress created the California Debris Commission which, among other duties, is charged to study practical methods whereby hydraulic mining may be resumed. The Debris Commission now licenses hydraulic mining operations and requires that they be carried on behind restraining dams. In addition, the commission can make surveys of sites for, and construct, debris control structures. At the present time the commission has constructed two such structures within the Yuba-Bear Rivers Hydrographic Unit. These are the Daguerre Point Dam and the Englebright Dam on the Yuba River. In addition to these, Bullards Bar Dam constructed as a debris control structure and the Nevada Irrigation District has reserved space in two of its reservoirs for storing mining debris.

The final development in placer mining came in 1898 when dredging of gold from river beds was first successfully accomplished. The dredges have increased in capacity and efficiency so that now a modern dredge may excavate 125,000 cubic

yards of material a week with a crew of only three or four men per shift. Gold dredging has been practiced on many streams within the Yuba-Bear Rivers Hydrographic Unit, but currently the only dredging being practiced is on the Yuba River near Hammonton.

About the same time that hydraulic mining was beginning, the working of hillside gravel and outcrops by means of shafts and adits was started. This method of mining, however, has not suffered from the restrictions placed on hydraulicking, since no stream debris is created.

Gold-bearing quartz was first found in the fall of 1850 in the gold field in Grass Valley. It has been estimated that \$2 million worth of gold was taken from within a few feet of the surface of Gold Hill. The more important quartz mines in the Grass Valley area and the dates they were located are: Empire Mine, 1850; Eureka Mine, 1851; North Lone Star Mine, 1852; and Idaho Mine, 1867. The Eureka Mine ceased operation in 1914, while the others continued to operate until 1957 when the mines closed because of labor strife and the unprofitable price of gold.

Gold production in California declined rapidly from the \$80-million output of the peak year 1852, to \$18 million in 1865. In the eight-year period 1852 to 1860, the population of Nevada County decreased from 21,000 to 16,450.

Agriculture began in the Yuba-Bear Rivers Hydrographic Unit early in the history of the area because many of the miners were better farmers than miners, and, soon tiring of their

inability to find gold, resorted to farming to supply the miners with food. In 1852 the Nevada County Assessor reported that 1,587 acres were under cultivation, and that during that year this acreage produced 14,310 bushels of barley, 307 bushels of oats, 299 tons of potatoes, and 50 tons of hay. The assessor's records for this period also show there were horses; mules; horned cattle, including work animals such as oxen; hogs; and poultry being raised in the county. growth of agriculture in the early days, as reported in the assessor's report for other years, is shown by the fact that the number of fruit trees increased from about 3,200 to about 50,000 in the five-year period from 1855 to 1860. The total cultivated acreage in 1860 is reported to have been 30,000 acres This is a twenty-fold increase in about eight years. Although mining and population decreased after 1852, agriculture continued to increase until about 1880. The completion of the overland railroad and the depletion of the mines in Virginia City contributed to a decline in foothill agriclture at this time. With the cessation of hydraulic mining in 1884, a further decline in population and agriculture was brought about.

With the development of placer mining to a high degree, and the development of agriculture, many ditches were built to convey water from streams to the areas of use. Many ditches in use today were built in the 1850's to 1860's to support the mining industry and the growing agricultural lands. Some of these ditches, with their respective dates of construction, are Pine Grove Ditch, 1851; Newton Ditch, 1851;



Browns Valley Ditch in Browns Valley



Wise Powerhouse

Bear River Canal, 1852; Tunnel Ditch, 1852; Excelsior Ditch, 1859; China Ditch, 1860; Tarr Ditch, 1861; and the South Yuba Canal, the construction of which was started about 1855 and completed about 1865.

Since settlers of all types needed housing, the great influx of mining was conducive to the development of the lumber industry in the area. The first lumber mills were built in the vicinity of Grass Valley in the early spring of 1850. It is estimated that the mountains in the eastern portion of the hydrographic unit contain about 560,000 acres of commercial pine and fir timber lands, 55 percent of which are now in private ownership. The estimated sustained lumber yield is 33,000,000 board feet cut, with a 1957 dollar value of about \$2,500,000.

Auburn, Grass Valley, and Nevada City, three of the principal cities of the hydrographic unit, had their beginnings in the gold rush days of the 1850's, and have continued in their relative prominence ever since. Many of the other early mining towns, such as Gold Run, Ophir, Gold Hill, Dutch Flat, Rough and Ready, North San Juan, Downieville, French Corral, Brown's Valley, and Smartville still exist, but only in a secondary role to their one-time glory. Other communities in the hydrographic unit are Rocklin, Loomis, Penryn, Newcastle, Weimar, Lincoln, Cisco Grove, and Soda Springs. Many of the towns that flourished during the mining days, but now are just memories, had quaint and unusual names such as Warloupa, Red Dog, New Town, Turkey Flat, Alpha, Omega, Timbuctoo and Sucker's Flat.

As has been previously noted, water development in the Yuba-Bear Rivers Hydrographic Unit began in 1850 with the construction of ditches to convey water to mining developments and to serve mining communities. Hydroelectric power production began in about 1897 with the construction of two small plants, one at Auburn and one at Newcastle, both of which have since ceased to operate. At present, 12 powerplants operate in the hydrographic unit, the oldest being the Alta Powerhouse, which was constructed in 1902. The other plants are Spaulding Powerhouses Nos. 1, 2, and 3; Drum Powerhouse; Dutch Flat Powerhouse; Halsey Powerhouse; Wise Powerhouse; Deer Creek Powerhouse; Colgate Powerhouse; Bullards Bar Powerhouse; and Narrows Powerhouse. All of the plants are operated by the Pacific Gas and Electric Company.

Other water projects within the area include those for agriculture which are operated by the Browns Valley Irrigation District, the Nevada Irrigation District, and the Pacific Gas and Electric Company. Detailed descriptions of these hydroelectric and agricultural facilities are contained in Appendix D.

The present development of ground water in the hydrographic unit is limited almost exclusively to domestic wells and to the water supply for Beale Air Force Base on the Sacramento Valley floor. Some of the surface water which flows from the hydrographic unit serves to recharge the ground water basin of the Sacramento Valley.

Recreational pursuits in the Yuba-Bear Rivers

Hydrographic Unit have reached significant commercial proportions. There are many organizational and commercial campgrounds in addition to the many camping facilities operated by the U.S. Forest Service. Hunting, fishing, and winter sports in the area have led to development of summer and winter cabins in the national forests and on private lands. Water sports are popular recreational pursuits on the many lakes and reservoirs within the hydrographic unit.

The present (1960) population of the hydrographic unit is estimated to be 49,300. This is an increase of 22 percent over the 1950 population of 40,300. The distribution of the 1960 population by counties was: Placer County, 54 percent; Nevada County, 39 percent; and Sierra, Plumas and Yuba Counties, 7 percent. The present urban population of the unit is estimated to be 16,800.

Natural Features

Much of the terrain of the Yuba-Bear Rivers Hydrographic Unit is mountainous. Valley and foothill lands constitute only 5 percent and 35 percent, respectively, of the total area. The development of agricultural lands has been largely confined to those lands below an elevation of about 2,800 feet. There are, however, significant areas of wooded, less steeply sloping mountain lands at elevation above 5,000 feet which are suitable for recreational pursuits and mountain homes.



Lumber mill near Woodleaf



Re-saw operation in Cal-Ida Mill near Auburn The hydrographic unit includes parts of two major geomorphic provinces of California. The westerly portion of the unit below about 500 feet in elevation is in the Great Valley geomorphic province, while the remaining portion of the unit lies in the Sierra Nevada geomorphic province. The parent rock materials in the Great Valley geomorphic province are divided into three units: flood plains, low alluvial plains and fans, and dissected alluvial uplands. The dissected alluvial uplands consist of gently rolling terrain merging with the Sierra Nevada foothills on the east. Cutting across all of these deposits are the stream deposits of the Yuba and Bear Rivers.

The Sierra Nevada geomorphic province is developed on a tilted block, the eastern margin of which has been uplifted along a series of faults. The western flank or dip slope of the great fault block slopes from 120 to 180 feet per mile toward the west, and finally passes beneath the alluvial fill of the Sacramento Valley. The parent rock materials in this province are metamorphosed sediments and volcanics of probable Carboniferous age, together with granitic rocks which intruded into the metamorphosed rocks in upper Jurassic time. The granitic rocks are well exposed throughout the area. Overlying the granities and metamorphics in many places are Tertiary auriferous gravels and volcanics.

The Yuba-Bear Rivers Hydrographic Unit can be divided into three major topographic zones for the purpose of distinguishing between soil characteristics: (1) the valley zone, (2) the upland zone, and (3) the mountainous zone.

The valley zone, consisting of lands below about 500 feet in elevation, comprises a narrow band along the westerly edge of the hydrographic unit extending from just west of Penryn to near Sheridan. The valley zone also includes the lands in the western portion of Beale Air Force Base. upland zone comprises those lands between elevations of 500 and 2,500 feet, and extends easterly from the valley zone to a line which extends from just north of Colfax to Nevada City and to Challenge. The mountainous zone comprises the lands above the upland zone to the crest of the Sierra Nevada.

The soils in the unit differ widely as to their age, their mode of formation, their parent rock material, and their environmental modification. The soils in the valley zone are of Recent and older alluvial origin, formed from the outwash material of the many streams transecting the area, and are characteristically quite mixed as to their parent rock material. The surface of the Recent alluvials is very smooth while that of the older hardpan is gently undulating. Much of the older alluvial fill-type soils have been dredged by gold dredges, with the resulting jumbled piles of loose water-polished rock which make these areas unsuitable for irrigation development. However, some of the dredger tailings areas have been leveled and top soil has been added to create irrigable soils. The Recent alluvial soils are characterized by coarse-textured soils having little or no agricultural development. In contrast to these, the older alluvial soils are fine-textured and are more agriculturally developed than

the older valley fill clay pans and hardpans. The uniformity of this alluvial belt is broken by an area of very shallow and rocky soils which exists along the easterly portion of the land between Roseville and Lincoln. In this area the soils, which are extremely rocky and generally have a depth of less than 1 foot, were formed over the remnant of an ancient tuffaceous volcanic mudflow, and for the most part are not suited for agricultural development.

In the upland zone the soils are primarily residual soils which were derived from basic igneous and metavolcanic parent rock material. Much of the irrigable land in the hydrographic unit that has been classified as being rocky (see Chapter IV) is located along the western portion of this zone.

The major soil bodies in the mountainous zone are restricted to the tops of several long, rather gently sloping finger-like ridges. In addition there are a few scattered parcels of Recent alluvial soils found in rather isolated valleys. Soils in the mountainous zone are deep, rather rocky, having a reddish-brown color, and are clay-loam in texture.

In addition to the three major zones, a small area between the valley and upland zones in the southern portion of the unit may be designated as an intermediate zone. This zone is located in the Loomis-Auburn area and extends from Folsom Lake in a northwesterly direction through Penryn to the Gold Hill region.

The intermediate zone contains primarily residual soils formed from a granitic parent rock material, with many large granitic outcroppings being well exposed throughout the zone. The soils are characterized by being rather sandy and pliable at the surface, gradually grading into clay-loam subsoils with deptsh of 3 to 4 feet, even in close proximity to rock outcroppings. The drainage of these soils depends almost entirely upon the surface slope. This condition leads to ponding in draws or depressions, while the sloping soils drain quite rapidly.

Climate

The climate of the Yuba-Bear Rivers Hydrographic Unit is characterized by long, dry summers and cool, rainy winters. About 90 percent of the precipitation occurs during the period from November through March. There is some summer thundershower activity at the higher elevations, but the total precipitation from these storms constitutes only about 3 percent of the seasonal total. At the higher elevations most of the precipitation occurs as snow, the average snowline elevation being 4,800 feet on April 1 of the average year. The general precipitation pattern in the unit increases from west to east with increasing elevation, to a maximum somewhat west of the crest of the Sierra Nevada.

The topographic zones used to describe soils are also helpful in describing the topographic features which influence the variation in precipitation. In the valley zone

such topographic features are confined almost entirely to changes in elevation. The average seasonal precipitation in this zone varies from 23 inches to 28 inches, with an overall average of about 26 inches. Other than changes in elevation, the first local orographic effects which cause variations in precipitation are notices in the upland zone. In this zone some funneling of storms occurs in the steeper stream channels. The average seasonal precipitation is 46 inches, and the variation in average seasonal precipitation in the zone is from 24 inches at the lower elevations to 73 inches at the higher. The local orographic effects vary the greatest in the mountainous zone of the hydrographic unit. The average seasonal precipitation in this zone is 63 inches, with a variation in average seasonal precipitation of from 42 inches to 83 inches. Precipitation in the mountainous zone occurs both as rain and snow.

Several long-record precipitation stations are located within the unit. Table 2 shows the mean annual precipitation based on, or corrected to, the period 1905-1955, and the corresponding elevation at selected stations.

TABLE 2

MEAN* ANNUAL PRECIPITATION
AT SELECTED STATIONS
IN
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Station	Elevation :	Precipitation (in inches)	Period of record
Rocklin Auburn Colfax Grass Valley Camptonville	239 1,297 2,418 2,693	22.74 34.80 45.59 53.25	1896-1963 1870-1963 1870-1963 1872-1963
Ranger Station Downieville	2,745	60.42	1907-1963
Ranger Station Deer Creek Powerhouse Blue Canyon Cisco Ranger Station Norden Summit	2,895 3,700 4,750 5,739 7,017	60.84 66.95 59.50 64.51 45.49	1908-1963 1907-1963 1899-1963 1870-1963 1878-1926

^{*}Mean period 1905-1955. "Mean period" is a period which is believed to represent conditions of water supply and climate over a long period of time.

Records indicate a wide variation of temperature within the Yuba-Bear Rivers Hydrographic Unit. The maximum recorded temperature is 118° F. and the minimum is -28° F.

The mean annual temperatures in the hydrographic unit decrease somewhat with increasing elevation. The mean annual temperatures in the valley, upland, and mountainous zones are estimated to be 61°, 57°, and 49° F., respectively. Table 3 presents temperature data and corresponding elevations at selected stations in and near the Yūba-Bear Rivers Hydrographic Unit.

TABLE 3

SUMMARY OF RECORDED TEMPERATURES
AT SELECTED STATIONS IN OR NEAR THE
YUBA BEAR RIVERS HYDROGRAPHIC UNIT

Station	Ele- vation:	de Average:		* Annual:		Period of record
Marysville	62	48.8	75.7	61.7	284**	1934-1963
Rocklin	239	45.6	75.0	60.3	234**	1932-1963
Auburn	1,297	47.2	73.5	60.5	271**	1933-1963
Dobbins-Colgate	1,550	46.8	73.7	60.8	255***	1934-1963
Colfax Nevada City Grass Valley Downieville Ranger Statio	2,418	45.8	71.1	58.8	225**	1932-1963
	2,500	36.8	70.1	53.5	143***	1932-1963
	2,693	47.6	71.8	59.7	240**	1932-1963
	2,895	36.6	68.8	52.5	140***	1934-1963
Deer Creek Lake Spaulding Blue Canyon Bowman Dam	3,700	36.9	64.2	50.3	133**	1932-1963
	5,156	33.4	61.4	47.7	101**	1932-1963
	5,280	38.3	62.2	50.3	144***	1940-1963
	5,347	38.3	60.8	49.6	137***	1934-1963

^{*}Based on period from first year of record to 1959. **Average for period 1924-1950.

The frost-free period shown in Table 3 represents the average period, in days, between the last day in spring and the first day in fall when the daily minimum temperature fell below 32 degrees Fahrenheit.

Water Resources

Since the Yuba River heads near the crest of the Sierra Nevada, flow in the river is extended into the summer beyond the main precipitation period by melting of the high elevation snow-pack. Long-term records of runoff have been obtained for about 90 percent of the Yuba River drainage in the hydrographic unit

^{***}Average for period 1948-1958.

from the stream gaging stations "Yuba River Near Smartville," for the period 1903 to 1941; and "Yuba River at Englebright Dam", and "Deer Creek near Smartville," combined, for the period 1941 to 1958. The Yuba River contributes an average of about 85 percent of the total runoff from the hydrographic unit.

The Bear River, with less than 1 percent of its drainage area above the 5,000-foot elevation where the snow-pack occurs, depends largely on storage water and imported water for its summer flow. Long-term records of the runoff from Bear River were determined by using the records of the stream gaging station "Bear River at Van Trent" for the period 1904-1927, and by adding the quantities of water diverted by the Camp Far West Irrigation District to recorded runoff at the station "Bear River near Wheatland" for the period 1929 to 1959. The Bear River contributes about 14 percent of the total runoff from the hydrographic unit.

Pertinent information synthesized from records of the two rivers are summarized in Table 4 and 5 to indicate the general characteristics of runoff in the unit. The amounts reported are the measured runoff and do not include amounts diverted from the streams within the hydrographic unit.

TABLE 4

RECORDED RUNOFF
BEAR RIVER NEAR UNIT BOUNDARY

Period	in ir	percen	:Discharge, t:cubic feet e:per second
Average runoff for period of record, 1904-05 through 1957-58 less 1928 and 1929 years	338,700	100	
Runoff in minimum year of record, 1923-24	23,100	7	
Runoff in maximum year of record, 1906-07	725,400	214	"
Runoff in driest 6-month period of record, May through October 1924	2,940		
Runoff in wettest 6-month period of record November 1906 through April 1907	672,200	~~	
Maximum recorded instantaneous flow, December 22, 1955			33,000
Runoff in the maximum month of record January 1909	295,500		
Runoff in 1956-57 water year (Oct 1-Sept 30)	228,100	67	
Runoff in 1957-58 water year (Oct 1-Sept 30)	497,900	147	

TABLE 5

RECORDED RUNOFF
YUBA RIVER NEAR UNIT BOUNDARY

			Discharge,
Period	: in :in :in :acre-feet:of		cubic feet
	;acre-reec.or	average.	per second
Average runoff for period of record, 1903-04 through 1957-58	2,109,200	100	ga. dar
Runoff in minimum year of record, 1930-31	429,300	20	
Runoff in maximum year of record, 1906-07	4,465,600	212	
Runoff in driest 6-month period of record, June through November 1931	91,600		Mar 194
Runoff in wettest 6-month period of record, January through June 1907	2,875,900	um bar	
Maximum recorded instantaneous flow, December 23, 1955			1 5 9, 30 0
Runoff in maximum month, January 1909	1,415,800		va 04
Runoff in 1956-57 water year (Oct 1-Sept 30)	1,544,100	7 3	
Runoff in 1957-58 water year (Oct 1-Sept 30)	3,015,100	143	

It is of interest to note that, on the average, 84 percent of the runoff of the Yuba River occurs between January and June, and 85 percent of the Bear River runoff occurs between December and April. Runoff of the Yuba River in the maximum month exceeded the total annual flow in 16 of the 55 years of record. Similarly, runoff of the Bear River in the maximum month exceeded the total annual flow in 24 of the 52 years of record.

From June through October 1957, the critical period of use during which most of the diversions from this unit were measured, runoff from the Yuba River totaled approximately 90 percent of the long-term average for this fivementh period. During the month of May 1957, 398,780 acre-feet feet of runoff were recorded. This flow exceeded the flow in May during 32 of the 55 years of record. Similarly, runoff for the month of June through October 1957 exceeded the flow in the corresponding months in 28, 31, 48, 46, and 49 years, respectively, of the total 55 years of record.

Several of the diversions in the unit were measured during the period June through October 1958. During this period Yuba River runoff totaled approximately 160 percent of the long-term average for this five-month period. Runoff recorded for the months May through October 1958 exceeded the flow in corresponding months in 51, 47, 42, 50, 52, and 43 years, respectively, of the 55 years of record.



enstock to Spaulding owerhouse No.3 and ake Spaulding



Englebright Reservoir For the Bear River, somewhat lower flows occurred in 1957 with respect to the long-term average, while above average flows occurred during 1958. For 1957 the runoff totaled approximately 70 percent of the 52-year average, while for 1958 runoff totaled approximately 140 percent of the average.

Local Public Agencies Concerned with Water Development

Public agencies concerned with water development in the Yuba-Bear Rivers Hydrographic Unit include county water agencies, which are mainly planning and advisory agencies, irrigation districts, and urban water supply agencies.

The Nevada County Water Resources Committee, Placer County Water Agency, and Yuba County Water Agency represent the water development agencies of the counties within this hydrographic unit. These committees and agencies represent their respective county boards of supervisors. Their major duty is the development and coordination of water development projects.

There are two irrigation districts within the unit,
Browns Valley Irrigation District and Nevada Irrigation
District. The Nevada Irrigation District is contained
entirely within the hydrographic unit, while a large part
of the Browns Valley Irrigation District is outside the unit.
Other public agencies which are designed to serve agricultural interests are San Juan Ridge County Water District,
French Corral County Water District, and Yuba County Water District

Urban water supply agencies within the unit include municipal water departments, local county water districts, a local public utility district, and a California Water District. Principal municipal water departments are located at Grass Valley, Nevada City, and Lincoln. County water districts serving municipal or domestic water supplies are located at La Porte and Alleghany. The local public utility district is the Downieville Public Utility District, serving the community of Downieville; and the California Water District is the La Porte Water District.

Agencies that are presently active in the development of water projects in the unit are Placer County Water Agency, Yuba County Water Agency, Nevada Irrigation District, Yuba County Water District, and Browns Valley Irrigation District. The Placer County Water Agency is presently in the advanced planning stages, with bonds having been approved by the voters, for the development of American River water for use in western Placer County on lands below approximately 400 feet in elevation. The Yuba County Water Agency is also in the advanced planning stages, with bonds having been approved by the voters, for the construction of New Bullards Bar Reservoir, which would inundate the present Bullards Bar Dam. Use of this water will be in the Sacramento Valley outside of the Yuba-Bear Rivers Hydrographic Unit. The Nevada Irrigation District has plans that have been approved by the voters for the development of additional storage facilities on the Middle and South Yuba Rivers above Milton and Bowman

Reservoirs; Rollins Reservoir on the Bear River; two power-houses on the Bear River between Dutch Flat and Rollins Reservoir; and the enlargement of Scotts Flat Reservoir. The Yuba-County Water District has preliminary plans for a reservoir at New York Flat on Dry Creek for service in the Dobbins area, and Browns Valley Irrigation District is now constructing a reservoir on Dry Creek near Virginia Ranch for additional supply to its service area.

Water facilities are also being developed by the Oroville-Wyandotte Irrigation District and South Sutter Water District for export from the hydrographic unit. Oroville-Wyandotte Irrigation District has completed construction on a reservoir and diversion facilities on Slate Creek for diversion to its water system in the Feater River watershed. South Sutter Water District is presently enlarging the dam on Bear River at Camp Far West Reservoir for additional storage and supply for its irrigation system, and for a more dependable supply for Camp Far West Irrigation District's irrigation system.

CHAPTER II. WATER USE

Hydrographic Unit are met almost entirely by diversions of surface runoff. For this investigation a survey was made of the systems established for the diversion of streamflow. Survey data reported herein include locations and descriptions of diversions, uses, amounts of water diverted, and information on apparent water rights relating to diversions. Diversions of water for all purposes are reported except those involving less than approximately 10 acre-feet per season, such as diversions by individual domestic users.

Quantities of water diverted were measured in order to further describe the diversion systems. The measured quantities do not necessarily represent average diversions, since in any single year the quantity will be influenced by precipitation and available streamflow during the growing season. As stated in Chapter I, runoff from the Yuba and Bear Rivers during the summer of 1957 was slightly below average, and during the summer of 1958 it was about one and one-half times the average. Considerations other than available water supply, such as economic factors, may also affect the relation of any diversion record to typical operating conditions. No attempt was made herein to assess these factors. The diversion quantities reported herein generally represent the actual amounts of water taken from the respective sources, and therefore include recoverable and irrecoverable losses incidental to the primary use.

The location of water wells and the measurement of their production were not covered in this investigation. However, the areas of lands irrigated by water from all sources were determined and are reported in Chapter III. Consumptive use of water was estimated in selected areas, and the results are presented later in this chapter.

The majority of the urban water service in the unit is supplied either by Pacific Gas and Electric Company or Nevada Irrigation District. Areas not receiving water from these suppliers are served by either small water service agencies, individual diversions of surface water, or individual water wells.

Urban areas receiving supplies from Pacific Gas and Electric Company and Nevada Irrigation District are in the following localities:

Pacific Gas and Electric Company

Location	Delivery made to	Primary source
Alta	Individual water users	Boardman Canal System
Auburn1/	Individual water users	Boardman Canal System
	Morgan Tract Water Users Assn.	
Darman	Oak Ridge Mutual Water Co.	Boardman Canal System
Bowman	Individual water users	Bear River Canal "
Dutch Flat	Dutch Flat Water Works	Boardman Canal System
	Nichols System	Boardman Canal System
	Dutch Flat Developers	Boardman Canal System
Gold Run	Individual water users	Boardman Canal System
Hidden Valley	Hidden Valley Water Co.	Boardman Canal System
Lincoln	Lincoln Municipal Water Dept.	Bear River Canal "
Loomis	Individual water users	Boardman Canal System
	Golden Hills Water Company	Boardman Canal System
Meadow Vista	Meadow Vista Water Users	Boardman Canal System
Newcastle	Individual water users	Boardman Canal System
Penryn		Bear River Canal "
Rocklin		Boardman Canal System
Shady Glen		Boardman Canal System
, , , , , , , , , , , , , , , , , , , ,		

Nevada Irrigation District

Location	Delivery made to	Primary source
Auburn2/	Individual water users	Gold Hill Canal & water delivered from PG&E
Bear River Pines Glenbrook3/ Grass Valley	Individual water users Individual water users Grass Valley Municipal Water Department	Cascade Canal D-S Canal D-S Canal
Grass Valley4/ Nevada City5/	Individual water users Nevada City Municipal Water Department	D→S Canal Snow Mountain Ditch
Nevada City <u>6</u> /	Individual water users	D-S Canal and Snow Mountain Ditch
Newtown	Individual water users	Newtown Ditch
Ophir	Individual water users	Gold Hill Canal
Rough and Ready	Individual water users	Rough and Ready Ditch
Smartville	Individual water users	China Ditch

1/ Includes urban areas in the vicinity of Auburn and between Auburn and Colfax along Highway 40 that are outside Nevada Irrigation District.

Includes only the suburbs to the north of Auburn that are

inside Nevada Irrigation District.

3/ Includes urban areas in vicinity of Glenbrook.
4/ Includes only outlying suburbs of Grass Valley.
5/ Does not include total water supply of city.

/ Includes only outlying suburbs of Nevada City.

Urban water service, other than that of Pacific Gas and Electric Company and Nevada Irrigation District, is provided in the following localities:

Location	Supplier	Source
Alleghany	Alleghany County Water District	Springs tributary to Kanaka Creek
Beale Air Force Base	U. S. Air Force	Ground water
Browns Valley	Browns Valley Irrigation District	North Yuba River
Camptonville Challenge	Camptonville Water Servic Harry Mulock	e Campbell Gulch Tributary to Golden Gate Ravine

Location	Supplier	Source
Dobbins	E. A. Ingersoll	Spring tributary to Dobbins Creek
Downieville	Downieville Public Utility District	Downie River and Pauley Creek
French Corral	Minona Mining Company1/	Shady Creek
Graniteville	Graniteville Water Works	Poorman Creek
La Porte	La Porte Water District	Springs tributary to Rabbit Creek
Nevada City2/	Nevada City Water Dept.	Little Deer Creek
North Bloom- field	North Bloomfield Community System	Humbug Creek
Strawberry Valley	Soper-Wheeler Company	Sly Creek (Feather River Hydrographi Unit)
Washington	Washington Water Supply	Canyon Creek

System leased and operated by French Corral County Water District.

2/ Serves only portion of city.

Water Rights

Water rights are an important consideration in the determination of availability of waters which are surplus to the present and future needs of an area wherein the waters originate. Data were therefore obtained with respect to apparent water rights in connection with the surface water diversions described herein. These rights may be based on appropriation or on riparian status, and may have been defined by adjudication proceedings. The California law of water rights, including both surface and underground water, is described briefly in Appendix C.

Most of the water use in the Yuba-Bear Rivers

Hydrographic Unit is based on appropriative rights established since 1914. As of May 29, 1959, a total of 470 currently valid

applications had been made in the unit under the provisions of the Water Commission Act of 1914. Permits or licenses had been granted for 392 of these applications, 52 were pending with the State Water Rights Board, and 26 were incomplete as of that date. All the applications are tabulated in Appendix C, Table C-1.

Water rights are rights in property which, because of their often obscure establishment, are frequently the subject of controversy and litigation. In the Yuba-Bear Rivers Hydrographic Unit only one major suit has taken place and, as a result, six diversions reported herein divert under an adjudicated water right. This action is further described in Appendix C.

Surface Water Diversions

An attempt was made during the survey to locate and obtain data with respect to all diversions of more than 10 acre-feet per year. All diversions actually in use in 1957, plus those which had been used within the preceding five years, were included. The date of last use, if known, is recorded for such discontinued diversion. Direct diversions, as well as those involving significant surface storage, were located. All reservoirs which had surface areas of about three acres or more were mapped. Three acres is approximately the minimum area which can be determined with reasonable accuracy by the methods utilized. Reservoirs located along and operated in conjunction with canals and

ditches are shown on the land and water use maps, but are not considered as separate systems and are not assigned location numbers. Similarly, water supplies obtained from small intermittent streams intercepted by canal systems, which add to the primary diverted supply, are not classed as separate diversions.

In some situations water users have made efficient use of water by rediverting field runoff or spill collected from their own upstream diversion systems. In this investigation, such points of rediversion are neither located on the maps nor assigned numbers. If return flow from another water user's operation is rediverted, or if there is doubt as to the origin of the water, the diversion is delineated and assigned a number. Diversion systems of water companies or groups of water users are considered as single units; individual customer distribution points are not shown on the maps.

In situations where a water-serving agency sells water to an individual by releasing to a stream channel for rediversion below, the individual's diversion was considered as a separate diversion if water in addition to the purchased water was diverted. These diversions were measured and the amounts diverted are reported as either including or not including the water puchased from the water agency.

There were 374 diversions of surface water located in the unit in 1957. These are classified by primary use as follows:

Primary use	Number of diversions
Irrigation and/or stockwatering Hydroelectric power production Mining Urban water supply Recreation Domestic Industrial Debris control Export for irrigation outside of unit	275 42 15 12 11 9 7 1
Total	374

Many of these diversions have multiple uses but are listed under what is considered their primary use. For example, Nevada Irrigation District and Pacific Gas and Electric Company diversion systems delivering water to Lake Spaulding are all considered as power diversions, while their diversions further downstream are considered as being for irrigation, although most are used also for domestic, municipal, and mining purposes.

Points of diversion and main canals or pipelines used to convey water from them are delineated on the 23 sheets of Plate 2, entitled "Land and Water Use." Nevada Irrigation District diversions are generally shown on sheets 1 and 2 of Plate 4, entitled "Water Supply System of Nevada Irrigation District." Pacific Gas and Electric Company diversions are generally shown on sheets 1 and 2 of Plate 5, entitled "Power and Water Supply Systems of Pacific Gas and Electric Company."

Numbering System for Surface Water Diversions

Surface water diversions are numbered to indicate their approximate location by township, range, and section within the federal land survey system. In this report, each section is subdivided into 40-acre plots, and the diversions are numbered within each of these 40-acre plots according to the order in which they were located. This system is illustrated on Plate 2. For example, diversion 16N/8E-14Cl, which is shown on sheet 16 of Plate 2 labeled as "14Cl," is the first diversion located in the northeast quarter of the northwest quarter of Section 14 in Township 16 North, Range 8 East, Mt. Diablo Base and Meridian (MDB&M).

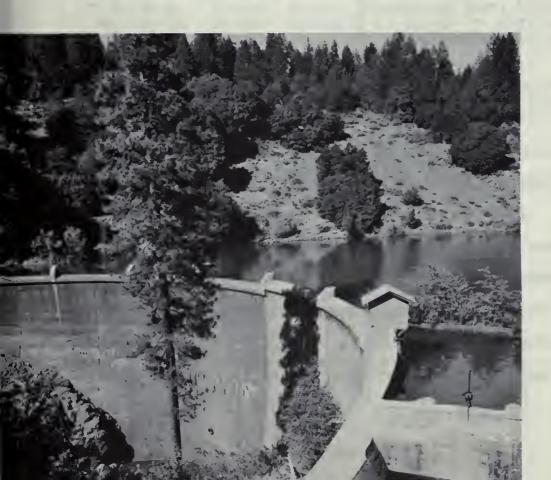
Descriptions of Surface Water Diversions

Descriptions, history, and other information relating to surface water diversions were obtained by field inspection, by interview with water users or their representatives, and by reference to prior reports and official records. This information is summarized in Table 6. Data in the table are arranged by diversion location number within each subunit.

The purpose of each diversion, the amount of water diverted during part or all of the years 1957 and 1958 where measurements or estimates were available, the extent of use in 1957, such as the number of acres irrigated, and the method of application of water are described in Table 6. If the purpose listed is not the usual use for that diversion, notation is made in the remarks column. The extent of domestic use is



version 17/6E-4Hl verting from y Creek



Deer Creek Reservoir and intake of D-S Canal

specified only when five or more connections are served. Stock-watering of less than 10 head of livestock is considered to be a domestic use. The extent of irrigation use is based on the land use survey described in Chapter III.

Detailed descriptions of the diversion systems, including dams, pumps, and main conduits, as well as any special features, are included in Table 6. The diversions are classified in the table as gravity, pump, and storage, according to the following descriptions:

Gravity diversion - A system in which water is taken from its natural course at a diversion structure and conveyed by gravity through a canal or pipeline to the area of use. Such a diversion may have a reservoir on the stream, but the capacity is small compared with the amount of water diverted, and provides no significant carryover storage from winter to summer.

Pump diversion - A system in which water is pumped from its natural course through a pipeline to the area of use or to a gravity conduit located at a higher elevation.

Storage diversion - A system consisting of or including a surface reservoir having significant carryover storage within each season or from season to season.

Systems not exclusively of one of these basic types are listed as combinations of those types which best describe them.

The type of water right under which the respective diversions are considered to be made is indicated in Table 6 as the "apparent water right." The determination of this item is based upon the best information available from the owner, from files of the State Water Rights Board, from court decrees and other official records, or from other sources.

Location				Woter, use in 1957		Ap	Apporent water right	right	Indicated		
ond ond Plote 2 shast number	Diversion name and/or owner	Source	Purpose	Extent and method of use	Amount giverted in ocre-feet	Турв	Amount	Reference	oppro- priotion or first use	Dascription of diversion system	Remorks
2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4											
200					A	Aileghany	Subunit				
18N/106-3C1 (Sheet 10)	Original 16 to 1 Mine, Inc.	Buckeye Ravine	Mining Milling Fire prot.	Hard rock mine ore processing	Not meas.	Approp."	1 cfe	А-1,81а	1856	Gravity; earth and timber dam with 0.1 mile of 6-inch pipe.	Mill received supplemental supply from 19N/108-3MM. Appropriative water right includes amount that may be diverted by 18N/108-302.
18%/10E-3C2 (Sheet 10)	Original 16 to 1 Mine, Inc.	Buckeye Ravine	Mining Milling Fire prot.	Hard rock mine* Ore processing	Not meas.	Approp.*	l cfs	A-1,81.ª	1856	Oravity; small dam with 0.2 mile of 6-inch pipe.	Mill received supplemental supply from 198/105-18N. Water right includes amount that may be diverted by 18N/10E-501.
193/10E-34B1 (Shect 7)	(Sheet 7) District Sheet 7)	Soring tributary to Red Star Ravine	Munic.	350 persons*	Not meae. Approp.	Approp.	0.45 cfs	A-16725ª	1944	Pump; 5-hp electric motor with 0.8 mile of 1-inch pipe and two 10,000-gallon etorage tanke.	Supplies community of Alleghary. Received supplemental supply from 19M/1DW-3MR2.
19N/10E-3lMl Original 16 (Sheet 7) Mine, Inc.	Original 16 to 1 Mine, Inc.	Springs tributary to Buckeye Ravine	Domestic	30 persons	Not meas.	Approp.	0.5 cfs	A-1193ª	1856	Pump; hydraulic ram with 0.2 mile of 6-inch pipe to connection with 19N/10E-34Bl.	Former owner: Burkeye Placer Claim. Portion of amount diverted used to supplement 18W/10E-3C1 and 18W/10E-3C2.
19N/10E-3UN2 (Sheet 7)	(Sheet 7) District	Springs tributary to Buckeye Ravine	Munie.	(*)	Not meas.	Approp.	;	1	Prior 1908	Pump; hydraulic ram with 0.4 mile of 4-inch pipe.	Former owner: Buckeye Placer Claim. Amount diverted used to supplement 199/108-3181.
19N/12E-12N1 (Sheet 8)	19W/12E-12NI Milton-Rowman Tunnel Middle Yuba River (Sheet 8) (Milton Reservoir) Movada Irrigation District	Middle Yuba River	Irrig. Mining Domestic Power	(*)	69,527*	Approp.	400 cfe 75,000 af 100 cfs 75,000 af	A-2275ª A-2276ª	1928	Gravity and storage; concrete onskind radius arch dam 32 feet high, 266 feet long, with a 270-acre-foot reservoir and 1.8 Miles of pipeline and tunnel to 18N/125-801 (Bowman Lake).	Diversion amount reported includes all water diversed by 19N/12E-ligh and 19N/12E-ligh. Combined supply used to eupplement 18N/12E-8C1 (Donner Pase Subunit).**
19N/12E-14F1 (Sheet 8)	(Sheet 8) District District	Poison Creek	3	(*)	*	Approp.	25 cfs 3,000 af 25 cfs 3,000 af	A-8177ª A-8179ª	1934	Gravity; small rock dam with 0.4 mile of earth ditch to connection with 19%/12E-12N1 (Milton-Bowman Tunnel).	Amount diverted and details of use reported under 19N/128-12N1,**
12N/12E-14H1 (Sheet 8)	(Sheet 8) District Sheet 8)	Wilson Creek	*	(*)	*	Approp.	25 cfs 3,000 af 25 cfs 3,000 af	A-8177ª A-8179ª	1934	Dravity; rock dam 2 feet high, 10 feet long, with 0.3 mile of sarth ditch to connection with 19W/12E_12MI (Wilton- Bowman Tunnel).	Amount diverted and details of use reported under 19M/12E-12ML.**
19N/13E-20Al Jesse Ennor (Sheet 8)	Jesse Ennor	Pass Creek	Irrig.	63 acres by flooding	Not meas. Approp.	Approp.	0.87 cfe	A-111 ₄₃ a	1918	Gravity; log dam & feet high, 25 feet long, with 0.8 mile of earth ditch.	
									1		

* See remarks.
** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
** Information not available.
For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Location				Water use in 1957		Appo	Apparent water right	ight	Indicated			
number and Plate 2 sheet number	Diversion name and/or owner	Source	Purposs	Extent and method of use	Amount diverted in ocre-fest	Туре	Amount	Reference	appra- priation ar first use	Dascription of diversion system	Remorke	
MDB&M					Aubu	Auburn Ravine Subunit	e Subunit					
12N/65-ZH1 (Sheet 22)	Adrian Guiliford	Markham Revine	Irrig. Stock.	35 acres by flooding and sprinkler* 60 head	Not meas.	<u> </u>	1	1	About 1910	Gravity; concrete dam & feet high, with 0.6 mis of earth ditch.	Former owner: C. E. Ouiliford, Area Lirigated received supplemental water purchased from Warda Irrigation District. Reported area irrigated is located in Goon Greek Subunit,	
12N/6E-1201 (Sheet 22)	Walter S. and Annie E. Griffing	Walter S, and Tributary to Markham Annie E, Criffing Ravine	Irrig. Stock.	25 scres by sprinkler* Not meas, Approp.	Not meas.		0.075 cfs	A-13740ª	1950	Pump; 10-hp electric motor with 0,2 mile of 6-inch pipe.	Former owner: Alexander E. Buck. Ownership changed to R. E. Woodward in May 1977, Area irrigated received supplemental water purchased from Nevada Irrigation District.	
12N/6E-12Kl (Sheet 22)	W. D. and Berths Byers	Tributary to Auburn Ravine	Irrig. Stock.	35 scree by sprinkler Not meas, Approp. and flooding*	Not meas.	Approp.	0.2 cfs	A-135428	About 1945	Pump; sarth dam 6 feet high, 20 feet long, and a 20-hp electric motor with short 6-inch pipeline.	Former owners: Annie and George Baniels. Area irrigated received supplemental water purchased from Nevada Irrigation District.	
(Sheet 22)	Hemphill Ditch Mrs. S. Amodel Mrs. Forsyths Mrs. E. H. Lewis Nsvads irrigstion District	Auburn Ravine	Irrig. Stock.	331 acres by flooding*	968	Approp.	So MI	A-6529, a	About 1854	Gravity; earth dam 4 feet high, 50 feet long, with 3.8 miles of earth ditch.	Irrigate an additional 115 acres by Irrigated an additional 115 acres by flooding until 1957. Portion of reported areas irrigated located in Orchard-Pleasant Grove Greek: Subunit, Water right application No. 6529 in name of Newada Irrigation District. Appropriative water right for 50 MI was established prior to 1914, and is held by Wirs. S. Anddai, Mrs. Porsythe, and Mrs. E. H. Lewis.	
12N/7E-9Pl (Sheet 22)	Miss Ethel Mulligan	Auburn Revine	Irrig. Ddmestic Stock.	11 acres by furrow (c)	п	Approp.	0.15 cfs	A-45978	1925	Pump; 7.5-hp electric motor directly connected to distribution system.	Former owner: California Trust Company.	
12N/7E-13G1 (Sheet 22)	Charles A. Ruestis	Auburn Ravine	Irrig. Poultry Recr.	27 acres by sprinkier 10,000 turkeys Fishing	188#	Approp.	16 MI	Book A Pg. 237	About 1883	Gravity; concrete dam 3 feet high, 30 feet long, with 0.4 mile of 8-inch pipe and 1.3 miles of earth ditch.	Former owners: Phillip Huestie, C. Phillip Huestis. Reported amount diverted is for 1/1/57 - 9/20/57 only.	
12N/7E-14A1 (Sheet 22)	Auburn Ravine Canal Nevada Irrigstion District	Auburn Ravine*	Irrig. Stock. Domestic	3 11	19,094*	Approp.	10 cfs	Deed	Prior 1917	Gravity; concrete dam 10 feet high, 90 feet long, with 18,5 miles of concrete-lined and earth canal.	Former owner: Pecific Gas and Electric Company. Stream flow of Auburn Ravine augmented by deliveries from Redific Gas and Electric Company.** Reported amount diverted is for April 1957 -	
(Sheet 22)	Frank H. Newcomb	Tributary to Auburn Ravine	Irrig. Stock.	42 scres by flooding*	127°d	Approp.	10 MI	Book A Pg. 454e	1903	Gravity and storsge; earth dam 20 feet high, 200 feet long, with 0,5 mile of earth ditch.	Former owners: J. H. Bickford, E. W. Newcomb. Reported amount diverted is for 11/47 - 10/5/57 only. Area irrigated received augplemental water purchased from Nevada Irrigation District.	

^{*} Soe remarks.

* Pos contain information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

-- Information not wrallable.

Par lettered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

A D B & M 12N/7E-17K1 12N/7E-1501 Sheet 22) Frank E. Conley (Sheet 22) Rimer A. and Ma 12N/7E-19A1 Elmer A. and Ma 12N/7E-19A1 Elmer A. and Ma	oin*	Source Grapevine Ravine Auburn Ravine	P c c c c c c c c c c c c c c c c c c c	Extent and method of use	Amgunt diverted in	Туре	Amount		oppro-	Description of diversion system	Remorks
					ocre-feet			Kererance	first use		
				A P	Auburn Ravine		Subunit (Continued)	ued)			
			Stock. Recr.	(*) Fishing*	Not meas.	Approp.	20 af	A-15338ª	About 1953	Storage; earth dam 10 feet high, 250 feet long.	Ownership changed to Henry Teitchert in 1958. Former owner: G. R. Gane, Previously supplied 15 head of live- stock, Heceived supplemental supply from
			Irrig. Stock.	26 acres by flooding and eprinkler 45 head	131	Approp.	150 MI	Book B Pg. 3790	1909	Pump; 7.5-hp electric motor with 0.1 mile of 6-inch pipe.	LAN/IE-51 Former owner: Peter Conley.
	******	Tributary to Auburn Ravine	Irrig.	34 acres by sprinkler and flooding* 75 head	₅₀ d	Approp.*	0.2 cfs	A-107514	About 1940	Greatly and storage; earth dam 6 feet high, 150 feet long, with 0.4 mile of earth ditch and pipeline.	Former owners: Lyle, Nafakus, Fulwilder. Area irrigated received supplemental water purchased from Resifts Cas and Electric Company, Water right assigned to Elmer A. and Mattie Van Dyke Johnson and Martin A. and Cleo B. Maier in 1959.
12N/7E-23B1 Pet Walters* (Sheet 22)		Grapevine Ravine	Irrig. Stock. Recr.	20 acree by sprinkler 	Not mess. Approp.*	Approp.*	18 af	A-12040; a	1948	Pump and storags; earth dam 27 feat high, 320 feet long, and a 3-hp electric-powered pump with 2-inch pipeline.	Former owners: G. F. Cane, W. C. Neuffer. Partial assignment of water right to Howard A. and Tillie E. Grebin to eupplement LZW/7E-17M.
12N/TE-21C1 Ray and Lillian (Sheet 22) LaPaille	Lillian lle	Badger Ravine	Irrig. Stock.	20 scres by flooding*	73.5	Approp.	1.2 cfe 72 af	A-10012ª	1957	Gravity and storege; earth dam 25 feet high, 275 feet long, 40 acre-foot reservoir, with three earth ditches having a total length of 1.0 mile.	Former owners: Phillip O'Brian, E. O. Price, Alvin Vereer, Area irrigated received supplemental water purchased from Pacific Gea and Electric Company. Reported amount diverted in for 5/1/57 - 9/27/57 only.
12N/7E-2301 Robert P. Rich (Sheet 22)	P. Rich	Dutch Ravine	Irrig. Stock.	42 acres by sprinkler and flooding	755	Approp.	30 MI	1	About 1870	Gravity; 1.3 miles of earth ditch.	Former owners: Ferevs, Martindale, Martin,
12N/7E-23F1 Faul and (Sheet 22) Ripley	Faul and Elizabeth Ripley	Dutch Ravine	Irrig.	ll acres by sprinkler*	284	Approp.	0.25 cfs	A-129448	1951	Pump; 5-hp electric motor with 0.2 mile of 4-inch pipe.	Former owner: Joseph Zezzo. Area irrigated received supplemental water purchased from Facific Gas and Electric Company.
12N/7E-23HI J. W. and (Sheet 22) Dieteri	J. W. and Nellie E. Dieterich Joe Varni	Dutch Ravine	Irrig. Stock.	6 acrse by sprinkler	32	Approp.	0.18 cfs	A-156578	1955	Pump; 10-hp electric mator directly connected to distribution system.	
12N/7E-24A1 Merrill (Sheet 22)	Merrill H. Carlton	Dutch Ravine	Irrig.	8 acres by furrow	902	Riparian	1	1	Prior 1914	Grevity; rock dam 2 feet high, 3 feet long, with 0.5 mile of sarth ditch.	Former owners: Henriques, M. Silva.
12N/7E-24F1 C. L. Di (Sheet 22)	L. Dimmler	Dutch Ravine	Irrig. Stock.	13 acres by flooding and furrow 30 head	52	Riparian	;	1	About 1850	Gravity; concrete dam 4 feet high, 20 feet long, with 0.5 mile of earth ditch.	Former owner: Cory.
12N/8E-3Fl George B (Sheet 22)	George Boorinakis	Auburn Ravine	Irrig.	12 acres by flooding	15	Riperian	1	1	1924	Aunp; 5-hp electric motor with 3.5-inch pipeline.	
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* See remarks.

* See remarks.

* Contain Surface Water Diversions*.

* Information not swallable.

* For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Location				Water use in 1957		Appa	Apparent water right	ight	indicated date of		
number and Plote 2 sheet number	Diversion name and/or owner	Source	Purpose	Extent and method of use	Amount diverted in acrs-feet	Туре	Amount	Referanca	appro- priotian ar first use	Osscription of diversion system	Remorks
и в в с и				Au	Auburn Rovine		Subunit (Continued)	ed)			
12N/8E-4.D1 (Sheet 22)	Jack Fanini	Tributary to North. Ravine	Irrig.	15 acrse by sprinkler Not meas. Hipsrian and furrow*	Not meas.	M pari an	1	Desd	Prior 1914	Pumpe; 2- and 5-hp electric meters with short 3-inch pipeline.	Former owner: Morgan, Area irrigated received supplemental supply from 12N/8E-4D2,
12N/85-4D2 (Sheet 22)	Jsck Fanini	Tributary to North Ravine	Irrig. Stock.	(*)	Not meas. Riparian	Riparian	1	Deed	Prior 1914	Gravity; earth and rock dam 5 feet high, 75 feet long, with a short earth ditch.	Formsr owner: Morgan. Amount diverted used to supplement 12N/8E-4D1.
12N/8E-5K1 (Sheet 22)	Milt Renfree	Tributary to North Ravine	Irrig. Stock. Domestic	Irrig. 14 acres by flooding Stock. 10 head Domestic (c)	118	Approp.	3 MI	ł	Prior 1912	Gravity; concrete dam 3 feat high, 22 feat long, with 0.1 mile of 4-inch pipe.	Former owners: Orr, T. P. Shanlsy
12N/8E-7R1 (Sheet 22)	E. O. Salmon	Hughss Ravine	Irrig. Stock.	3 scres by flooding*	Not meas.	Approp.	20 MI	Book A Pg. 197e	About 1858	Cravity; small earth dam with 350 feet of earth ditch and 0.1 mile of 4-inch pipe.	Former owners: King, J. L. Salmon. Area irrigated received emplemental emphy from L2V/8E-7P2 and from water purchased from Nevada Irrigation District.
12N/8E-7R2 (Sheet 22)	E. O. Salmon	Hughes Ravine	Irrig.	(*)	Not mess. Approp.	Approp.	20 MI	Book A Pg. 197e	Prior 1914	Gravity; small wood dam with 400 feet of 4-inch pipe.	Former owners: King, J. L. Salmon. Amount diverted used to supplement 12N/8E-7RL.
12N/8E-10F1 (Sheet 22)	Everett M. Ludwig	Auburn Ravine	Irrig. Stock.	19 acres by sprinkler	77.	Riparian	1	1	1949	Nump; 7.5-hp electric motor with 200 feet of 4-inch pipe.	
12N/8E-16Hl (Sheet 22)	Frank P. Morsth	Auburn Ravine	Irrig. Stock.	9 acres by sprinkler 50 hsad	Not meas.	Approp.	DO MI	Book B Pg. 424	1914	Gravity; 0.3 mile of 6-inch pipe.	Former owners: Kiessling, Dominic Horath.
12N/8E-17B1 (Sheet 22)	G. G. Johnson	North Ravine	Irrig.	12 acres by furrow	207	Riparian	ı	1	Prior 1878	Gravity; rock dam with 0.6 mile of marth ditch.	Former owners: McGuen, Andrew Johnson,
12N/8E-17K1 (Sheet 22)	Iwami Nishimoto A. M. Amaral	Auburn Ravine	Irrig.	58 acres by furrow*	Not meas.	Approp. (0.024 cfs	A-3038ª	Prior 1922	Gravity; rock and concrete dam 4 feet high, 20 feet long, with 1.7 miles of earth ditteh.	Former owners: W. Kiessling, G. Ludwig, A. Oest, M. Ludwig. Area irrigated received supplemental supply from 12N/85-17K2.
12N/8E-17K2 (Sheet 22)	Iwami Nishimoto A. M. Amaral	North Ravine	Irrig.	(*)	Not meas.	9	1	1	Prior 1922	Gravity; 25 fet of earth ditch to connection with 12N/8E-17Kl.	Amount diverted used to supplement 12N/8E-17KL.
12N/8E-18B1 (Sheet 22)	Jamison Ditch H. V. McDaniel	Hughes Ravine	Irrig.	5 acres by floeding	99	Approp.	10 MI	Book A Pg. 128	1872	Gravity; rock dam with 0.2 mile of earth ditch.	Forner owners: Henry Jamison, William Warner,
12N/8E-18C1 (Sheet 22)	Roland C. Lapp	Tributary to Auburn Ravins	Irrig.	4 acres by flooding	Not meas.	Riparian	ł	1	About 1905	Gravity; earth dam 1 foot high, 6 feet long, with 0.2 mile of earth ditch.	Former owners: Jamison, Nois.
12N/8E-18G (Sheet 22)	Roland C. Lapp	Auburn Ravine	Irrig.	9 acres by flooding and furrow*	21.5	Alpanian	1	!	About 1905	Pump; 5-hp electric motor with a 4-inch pipeline.	Pormer owners: Jamison, Nois. Ares irrigated received supplemental water purchased from Newada Erigistion District and Pacific Gas and Electric Company.
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* See remarks.
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-- Information not svaliable.
For lettered footnotes, see last page of table.

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DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Lacafian				Water use in 1957		Api	Apparent water right	right	Indicated		
number and Plats 2 sheet number	Diversion hame and/or owner	Source	Purpose	Extent and method of use	Amount diverted in pcre-feet	Туре	Amount	Reference	appro- priation or first use	Description of diversion system	Rsmorks
MDB&M				A	Auburn Ravine		Subunit (Continued)	nued)			
12N/8E-18L1 (Sheet 22)	Roland C. Lapp	Tributary to Auburn Ravine	Irrig. Stock.	3 acres by flooding	Not meas.	(9)	1	1	1951	Gravity and storage; earth dam 25 feet high, 450 feet long,	
12N/8E-18Q1 (Sheet 22)	Roland G. Lapp	Tributary to Auhurn Ravine		fishing in reservoir 6 acres by flooding	30	M parian	ì	1	About 1905	With U.1 mile of earth darwith O.1 mile of earth ditch.	Former owners: Jamison, Noia.
12N/8E-18H1 (Sheet 22)	Roland C. Lapp	Tributary to Auburn Ravine	Irrig.	8 acres by flooding	m	Riparian	1	1	About 1905	Gravity; earth and timber dam 3 feet high, 10 feet long, with 0,2 mile of earth ditch.	Former owners; Jamison, Nola.
					98 1	Bullards Bar Subunit	Subunit				
18N/7E-3J1 (Sheet 9)	Lloyd Williams Alex Moran	Tributary to Little -Oregon Greek	*	(*)	*	Approp.	ı	1	About 1854	Gravity; 0.1 mile of earth diteh.	Former owners: Andrew J. Edgar, James and Neeley McConnel, Dorle, Henry, and Mary Skinner. Amount diverted and details of use reported under 18H/7E-3KL.
18N/7E-3K1 (Sheet 9)	Lloyd Williams Alex Moren	Tributary to Little Oregon Creek	Irrig. Domestic	Irrig. 14 acres by flooding Domestic (c)	24,5*	Approp.	ŀ	1	About 1854	Greatly; direct diversion with 1.0 mile of earth ditch and wood flume.	Former owners: Andrew J, Edgar, James and Neeley McConnel, Doris, Henry, and Mary Skinner. Reported amount diverted includes all water diverted by 18W/7E-3Jl.
18N/8E-1M1 (Sheet 9)	Camptonville Water Service	Campbell Gulch	Munic.	150 persone*	*111	(9)	1	1	About 1853	Gravity; concrete dam 10 feet high, 60 feet long, with 1.5 miles of 8-inch pipe to 335,000-gallon storage tank.	Former Owners James Campbell, Labadie, Supplies community of Camptonville, Reported amount diverted is for $\delta/L/5T - 10/39/57$ only.
18N/7E-24Dl (Sheet 9)	Bullards Bar Reservoir Pacific Gas and Electric Company	North Yuba Elver	Power	6,500 kw installed generating capacity at Bullards Bar Powerhouse	350,200	Approp.	700 cfs 5,000 af 10,000 af 15,000 af 5,335 af		1921	Gravity and storage; variable radius concrete arch dam, 193 feet high, 520 feet long, with 31,490 acre-foot reservoir.	Former owner: H. P. Whitney, et al. Augments flow of North Yuba River for rediversion by 18N/TE-25FL.**
18N/7E-25F1 (Sheet 9)	Colgate Tunnel Pacific Gas and Electric Company	North Yubs Hiver*	Power Irrig.	24,000 kw installed generating cepacity at Colgate Power- house (*)	284,520*	Approp.	100 cfs	A-9516,8	1926	Gravity; concrete dam, 47 feet high, 175 feet long, with 4.7 miles of variable section tunnel and 0.3 mile of penstock.	Stream flow of North Yuba River augmented by 18M/FE-24D1 (Bullard Bar Reservoir). Redivers water stored by 18M/FE-24D1 under appropriative augmentative personal and stored by the stored by the stored of the store
., "	14									ì	in addition to the reported right. In addition to the reported amounts diverted, 11,770 acre-feet were delivered to 178/7E-16Ht, Browns Valley Ditch (Pike Submit) at head of penstock.**
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* See remarks.
** See remarks.
** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
-- Information not evaliable.
For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Location				Woter use in 1957		App	Apporent woter right	right	dote of		
number and Plate 2 sheet number	Diversion nome ond/or owner	Source	Purpose	Extent and method of use	Amount diverted in ocre-feet	Туре	Amount	Reference	appro- priotion or first use	Description of diversion system	Remorks
200					Bullards	Bar Subu	Bullards Bar Subunit (Continued)	ued)			
2000											
18N/8E-8F1 (Sheet 9)	Erle Pauly	Tributary to Willow Greek	Irrig. Domestic Stock. Power	10 acres by flooding* 20 head 2.5 kw	0077	②	1	1	About 1870	Gravity; earth dam 12 feet high, 90 feet long, with 75 feet of G-inch pipe, 100 feet of G-inch pipe and 300 feet of earth ditch and flume.	Former owners: Clay, Nelson, Carlson, Acock, Conroy, Previously irrigated an additional 9 acres.
19N/7E-901 (Sheet 6)	Sacramento Box and Lumber Company	Indian Greek	Indust.	Lumber millpond	Not meae.	<u>@</u>	ŧ	1	Prior 1957	Gravity; earth dam 15 feet high, 350 feet long.	Additional water purchased from Oroville-Wyandotte Irrigation District.
19N/7E-14H1 (Sheet 6)	Mrs. Edna A. Whitehead	Empire Creek	Irrig. Domestic	5 acres by flooding (c)	Not mees.	9	+	1	About 1884	Gravity; rock and earth dam 8 feet high, 10 feet long, with 1.0 mile of earth ditch.	Former owners: Johnson, Brown.
19N/8E-28N1 (Sheet 6)	E. A. Nelson	Bridger Greek	Irrig.	16 acres by flooding	186*	Riparian	1	1	Prior 1957	Gravity; concrete dam 4 feet high, 15 feet long, with 0.5 mile of earth ditch.	Reported amount diverted is for 7/1/57 - 10/30/57 only.
19N/8E-31G1 (Sheet 6)	Fred N. Saker	Mill Creek	Irrig.	63 acres by eprinkler and flooding	185*	Riparian	;	1	About 1909	Gravity; wood flume with two earth ditches having a total length of 1.6 miles.	Reported amount diverted is for 6/15/57 - 9/30/57 only.
19N/8E-34B1 (Sheet 6)	James and Frank Pendola	Brandy Creek	Irrig. Stock,	56 acres by flooding 30 head	420*	Approp.	300 MI	1	About 1914	Gravity; rock dem 3 feet high, 10 feet long, with 2.8 miles of earth ditch.	Reported amount diverted is for 5/25/57 - 10/17/57 only.
19N/8E-35Jl (Sheet 6)	Julius A. Cassano	French Greek	Irrig. Stock.	7 acres by flooding 12 head	*76	Approp.	1	Deed	About 1880	Gravity; earth and rock dam with 0.7 mile of earth ditch.	Former owners: Meek, Biscoe. Reported amount diverted is for 5/8/57 - 10/31/57 only.
19N/9E-31K1 (Sheet 7)	Ed J. Kohler	Springs tributary to Campbell Gulch	Irrig.	5 acres by flooding	Not meas.	Riperian	1	Deed	1848	Gravity; developed springs with earth ditches.	Former owners: Ellza, Peter Yore.
21N/8E-34F1 (Sheet 2) (Import from Feather River Hydro- graphic Unit,	Bean Ditch Soper-Wheeler Company	Sly Greek	Irrig. Stock. Munic.	80 acres by flooding 200 persons	289	Approp.	1	I	About 1863	Gravity; earth and rock dam 2 feet high, 30 feet long, with 6.1 miles of earth ditch.	Former owners: Garst, Goebel, Birmingham, Bean. Supplies community of Strawberry Valley.
					S	Camp Beate Subunit	Subunit				
						(No Diversions)	reiona)		1	-	
	h										

* See remarks.

* For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

-- Information not available.

For lettered footnotes, see last page of table.

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Locotian				Water use in 1957		App	Apporent water right	right	Indicated date of		
number ond Ptote 2 sheet number	Diversion name and/or awner	Source	Purpose	Extent ond method of use	Amount diverted in ocre-feet	Туре	Amount	Reference	oppro- priction or first use	Description of diversion system	Remorks
V 4 0 0 V					3	For Wes	Como For West Subunit				
14N/6E-2111 (Sheet 19)	Camp Far West Reservoir; Camp Far Weet Irriga- tion District	Bear Miver	Exnort	*)	Not meas. Approp. Approp.		5,000 af 5,000 af	A-2881a A-10190ª	1928	Storage, concrete arch dam 62 feet high, 365 feet long, forming a 5,000-acre-foot reservoir.	Water is released to be rediverted for irrigation of approximately μ_1 100 acres in the Sacramento Valley Floor.
14N/7E-28B1 (Sheet 19)	Hannaman Ditch Kenneth J. Casper Nevada Irrigation District	Little Wolf Greek	Irrig. Stock.	61 acres by flooding	1,015*	②	I	1	About 1850	Gravity; rock and concrete dam 6 feet high, 80 feet long, with 1.4 miles of concrete-lined canal.	Former owners: Sanford, Spoor, First 5 M of water diverted is under Nevada Irrigation District water right and balance under agreement between Nevada Irrigation District and K. J. Casper.
14N/7E-33C1 (Sheet 19)	Kenneth J. Casper	Sanford Greek	Irrig. Stock.	31 scree by flooding	138	(9)	1	8 9	1947	Gravity and storage; earth dam 40 feet high, 250 feet long, with 300 feet of concrete pipe and 0.2 mile of earth ditch.	Former owners: Sanford, Spoor.
						Combie	Subunit				
13N/8E-2E1 (Sheet 21)	Van Giesen Dam (Lake Combie) Nevada Irrigation District	Dear River*	Irrig. Mining Domestic	*	Not mess. Approp.		12,500 af	A-2652ª	1928	Storage, variable redius arch dam 65 feet high, 762 feet long, with a 9,000-acre-foot reservoir.	Rediverts water under Application Ec. 1270 in addition to reported right. Stream flow of Bear River augmented by 16M/92-103L. Wount diverted used to supply 13M/8E-2E2 and to supplement 13M/8E-2E2 and to supplement to stream channel for rediversion by that diversion.**
(Sheet 21)	Magnolia No. 3 Nevada Irrigetion District	Lake Comble	Irrig. Stock. Domestic	(F)	1,258*	ê	1	ł ·	1934	Gravity and pump; 400 feet of concrete and earth ditch from Van Gissen Dam to intake for either a 75-hp electric-powered pump or a hydraulic-operated pump vith short 12-inch pipeline and 300 feet of 18-inch pipe to easili	Reported amount diverted is for April 1957 - March 1958. Reported amount diverted is supplied by water impounded in 13M/8E-EEI (Lake Combie).
(Sheet 21)	Cold Hill Canal Navade Irrigation District	Gear River*	Irrig. Stock. Domestic	9	33,110*	Approp.*	22 cfs	Deed	Prior 1901	Grewity; concrete dam 25 feet high, 200 feet long, with 96.5 miles of earth ditch, pipe, and wood flume.	Former owners: South Yuba Water Company, Pacift Gas and Electric Company. Stream flow of Bear River augmented by 13M/BB-2E1 (Lake Combie). Reported amount diverted for 1597 is for April-becember only, Amount aborn in parentheses is for 1998. Rediverte water under appropriative Application No. 1270 in addition to reported right.

* See remarks.
** For additional information eee Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
** Information not available.
** For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSICHS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

	Remorks		Pump and storage; concrete arch Pormer owners: D. L. Jungek, dam 35 feet high, 130 feet long, with portable gas pump and 450 feet of 4-inch pipe to earth ditch.			Former owners: Mrs. Harris, H. Ruby. Pacific Gas and Electric Company for summer use.		Pormer owners: Bear River and Auburn Mater and Mining Company, South Yuba Mater Company, Stream flow of Bear River augmented by 16M/LIE-I/EL and ITM/LIE-2002 (Mutch Flat Subunit).** Rediverts water from Novada Irrigation District under appropriative Application No. 532 and water from Fortyce Reservoir under appropriative Application Nos. 2753 and 3550. Irrigation use consists of a portion of the supply to the Placer Water System (Bowman, Fiddler Green, and Dutch Ravine Ganals and recharge to the Boardman System) and deliveries to Nevada Irrigation District.**		Former owners: Bill Ayres, Flury, F. Mickerson.
	Osscription of diversion system		Pump and storage; concrete arch dam 35 feet high, 130 feet long, with portable gas pump and 450 feet of 4-inch pipe to earth ditch.	Gravity and storage; earth dam 15 feet high, 250 feet long, with a short earth ditch.	Amp and storage; earth dam 10 feet high, 250 feet long, with 5-ph electric-powered pump and 0.2 mile of 5-inch and 0.1 mile of 6-inch pipe,	Storage, earth dam 23 feet high, 400 feet long.	Gravity and storage; earth dam 25 feet high, 500 feet long, with a short 4-inch pipeline.	Cravity; concrete dam with a total length of approximately 35.4 miles of cenel, flume, and tunnel consisting of the Bear Have Canal with a capacity of about 490 cfs and a length of 23.3 miles from the Bear Haver to Halsey Porebay; the Wise Canal with a capacity of about 450 cfs and a length of 5.9 miles from Halsey Afterbay to Wise Forebay; and the South Canal with a length of 6.2 miles from Halsey Afterbay to Folsom Wise Afterbay to Folsom Wise Afterbay to Folsom Halsey Haservoir.		Gravity; 0.2 mile of 8-, 6-, and 3-inch pipe to earth ditch.
Indicated dots of	oppro- priotion or first use		1926	1956	1953	1955	About 1948	1852		Prior 1914
right	Raferenca		A-39958 A-156078	A-17495a	A-14773ª	1	A-14179ª	*		1
Apporent water right	Amount	Subunit (Continued)	40 af	0.1 cfs 10 af	0.25 cfs 1.5 af	1	21.3 af	*	Subunit	ę
Арр	Туре		Approp.	Approp.	Approp.	②	Approp.	②	Coon Creek Subunit	②
	Amount diverted in ocre-fest	Combre	Not meas.	Not meas. Approp.	Not meas.	Not meas.	Not meas. Approp.	292,700	S	Not meas.
Water use in 1957	Extent and method of use		4 acres by flooding 14 head Flahing and boating	20 acres by flooding 60 head	8 acres by sprinkler	100 head*	9 acres by sprinkler	12,000 kw installed generating capacity at Halsey Powerhouse 12,000 kw installed generating capacity at Wise Powerhouse (*)		3 acres by flooding 35 head
	Purposs		Irrig. Stock. Recr.	Irrig. Stock.	Irrig.	Stock.	Irrig.	Power Irrig.		Irrig. Stock.
	Source		Magnolla Creek	Tributary to Magnoila Creek	Tributary to Campbell Greek	Tributary to Bear River	Tributary to Chicago Park Creek	Bear Mv er*		Tributary to Doty Ravine
ć	Diversion name and/or owner		E. H. and Callis J. Robbins	Edward and Margaret Pilliard	Vernon S. and Edna Jaquith Barbara J. Haffcy	John Roland	C. J. Rolph, Jr.	Bear River Canal Wise Canal South Canal Pacific Canal Electric Company		David W. Gooth
Locotion	number ond Plate 2 sheet number	MDB&M	LAN/8E-32D1 (Sheet 20)	14N/8E-35Cl (Sheet 20)	14N/95-4G1 (Sheet 20)	14N/9E-29D1 (Sheet 20)	15N/9E-21M1 (Sheet 18)	(Sheet 18)		12N/7E-2C1 (Sheet 22)

^{*} See remarks.
** For exhance information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
** For lettered footnotes, see last page of table.

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Process Secret	Location				Water use in 1957		Аррс	Apporent water right	right	Indicated date of		
House I, Konteron Day Butine Frie, 2 acres by Currow 66 (b) 1940 Page Cavity 0.2 mile of earth France connect Valuations Page	number ond Plate 2 shest number	Diversion name and/ar cwner	Source	Purpose	ond method of use	Amount diverted in acre-feet	Type	Ameunt	Reference	appre- priation or first use	Description of diversion system	Remorks
Properties Park P	MDB&M					Coon Cree	- Subun	Continu	ed)			
Desirger Perrelre allacer Rowins Tries, 28 acres by Arrow and Ros sand. (b) 1936 Octabile of 3-from plan. Desirgered rows Rowins Irrigation between the Arrow Control of State o	12N/7E-201 (Sheet 22)	Vincent H. Anderson	Doty Ravine		2 acree by furrow 40 head	%	(a)	1	ł	About 1870		Former owner: Veilmeirer.
John G. Mohammed Doty Ravine Irrig. 34 acres by furrow and 107 Riparian	12N/7E-3E1 (Sheet 22)	Domingoe Ferreira	Sallore Ravine	Irrig. Stock.	by furrow	Not meas.	(q)	1	1	1946		Former owners: Wendle, Jim Dudley. Area irrigated received supplemental water purchased from Nevada Irrigation District.
Wincent H. Anderson Dety Ravine Strike. 33 seres by furrow 31 Approp About Gravity, 1.0 mile of earth ditch and 0.2 mile of clock ditch	12N/7E-4G1 (Sheet 22)	John G. Mohammed	Doty Ravine	Irrig.	34		Riparian	1	1	1923	<pre>Rump; 15-hp electric motor with 0.6 mile of 4- and 6- inch pipe.</pre>	Former owner: Tony Dias.
Manuel Jacinto Doty Ravine Irrig. 18 acres by furrow 31 Approp About Mich and 0.2 wile of Gainch Stand Inches Manuel Jacinto Doty Ravine Stock. 30 head by sprinkler Coon Greek Pup Newsda Irrig. (1) 889 (h) Prior Gravity; concrete dam 3 feet and 4-inh 0.5 mile of Gainch Mich 12 feet on 6- ind 4-inh 0.5 mile of Gainch Mich 12 feet of Mich 12 feet o	12N/7E-12D1 (Sheet 22)				by	8	Riparian	1	1	About 1870		Former owner: Veituneirer.
Manuel Jacinto Doty Ravine Stock, 20 head Doty Ravine Stock, 20 head Stock, 20 he	12N/7E-12H1 (Sheet 22)	Joe L.	Doty Ravine	Irrig.	acres	31	Approp.	1	;	About 1858		Former owner: Kittler.
Edward R. Foreter Doty Ravine Stock. Goon Greek Pump Coon Greek Pump Co	12N/8E-7F1 (Sheet 22)	Manuel Jacinto	Doty Ravine	Irrig. Stock.	18 acres by eprinkler 30 head	92	Riparian	1	1	About 1857		Former owners: Mrs. Ikey, Minnie Rogers.
Chamberlain Estate Coon Creek Pump Company Chamberlain Estate Coon Creek Lirig. Chamberlain Estate Coon Creek Lirig. Chamberlain Estate Company Chamberlain Estate Company Chamberlain Estate Company Chamberlain Estate Connected Trigation Doty Ravine* Stock. Lirig. Lirig. Lirig. Lirig. Lirig. Lirig. Lipid. Lip	12N/8E-7F2 (Sheet 22)	Edward R. Foreter	Doty Ravine	Irrig. Stock.	8 acree by furrow 50 head	97	Riparian	1	1	Prior 1914		Former owners: Ruth, Emil Mundt.
Company Compan	13N/6E-22A1 (Sheet 21)	Coon Creek Pump Nevada Irrigation District		Irrig. Stock. Domeetic		688	(q)	1	1	Prior 1957	Pump; 50-hp electric motor with short pipeline to Doky Ravine North Canal	Stream flow of Goon Creek augmented by 13MCB2-5H1 (Combie Shunit) and deliveriee from Pesific Gee and Electric Company.**
Doty's South Ditch Newda Irrigation Newda Irrigation District James Ross Tributary to Doty Tributary t	13N/6E-29Hl (Sheet 21)		Goon Greek	Irrig. Stock.	265 acres by eprinkler and flooding	*002	Approp.	1	1	About 1908	Pump; 7.5-hp electric motor with0.1 mile of 14-inch concrete pipe and 455 feet of 12-inch concrete pipe.	Reported amount diverted is for 1956.
James Ross Tributary to Doty Irrig. 15 acres by flooding* Not mese. (b) About Gravity; earth dam 5 freet high, Relating Stock. 10 head Stock 10 head of earth ditch.	13N/6E-36GI (Sheet 21)	ă		Irrig. Stock. Domestic		3,650	(a)	1	1	Prior 1957		Stream flow of Doty Ravine augmented by release upstream. **
	13N/6E-36H1 (Sheet 21)	ي		Irrig. Stock.	15 acres by flooding*	Not meae.	a	1		About 1951	Gravity; earth dam 5 feet high, 300 feet long, with 0.2 mile of earth ditch.	
										1,		

* See remarks.
** See remarks.
** To additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
** Information not available.
For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Gravity; concrete chigh, 100 feet 16 12,5 milee of earth ditch. Cravity; concrete chigh, 30 feet lonmiles of earth dam of tech. Cravity; earth dam of feet long, with earth ditch. Cravity; earth dam of feet long, with earth ditch. Cravity; earth ditch. Cravity; carth dam of feet long. Cravity; carth ditch. Cravity; carth dam of feet long. Cravity; carth ditch. Cravity; carth dam high, 200 feet lot the carth ditch. Cravity; small eart of cravity; small earth of coral langth of Cravity; small eart of carth ditches two arth ditches two ar					Water use in 1957		Арр	Apporent water right	right	Indicated		
Coon Greek Irrig. Coon Greek Subunit (Continued) Coon Greek Subunit (Coon Greek Subunit (Coon Greek Subunit (Coon Greek Subunit (Coon	Diversion r and/or owner	emo	Source	Purpose	Extent and method of use	Amount diverted in ocre-fset	Type	Amount	Reference	oppro- priation or first use	Description of diversion system	Remorks
Doon Greek										1		
Down Greek* 17rig. 13 acres by flooding 12,219* (b) Prior Prior 1917 Magh, 1007 freel and word fluence. 1918 1						Coon Cre		t (Continu	(pa			
Coon Creek Irrig. 13 acres by flooding 12 Approp. 30 Book A About Carvity; concrete contacts of a said a printlar. 15 Riparian	mp Far West Nevada Irrig District	Canal	Coon Creek*	Irrig. Stock. Domestic		12, 219*	a	1	1	Prior 1917	Gravity; concrete dam 15 feet high, 100 feet long, with 12.5 miles of earth ditch and wood flume.	Former owner: Pacific Gas and Electric Company. Reported amount diverted is for April 1957 - March 1958. Stream flow of Goon Greek augmented by 13N/88-311. (Combis Subunit) and deliveries from Pacific Gas and Electric Company.**
Springs tributary to Doty Irrig. 9 acree by flooding Gaps Ravine Gaps Ravine Living. 9 acree by flooding Gaps Ravine Living. 6 acres by sprinkler* 15* Riperian Deed Gaps Ravine Gaps Ravine Living. 2 acree by flooding Gaps Ravine Gaps Ravine Living. 2 acree by flooding Gaps Ravine Gaps Ravine Living. 2 acree by flooding Gaps Ravine Gaps Ravine Gaps Ravine Gaps Ravine Gaps Ravine Gaps Ravine Sicok. 45 head Approp. 20 Mg Pg. 212e Book B 1993 Grevity; o.4 mile Gaps Ravine Gaps Ravi	S. Barton		Coon Greak		13 acres by flooding 80 head	112	Approp.	30 MI	Book A Pg. 162	About 1880	Gravity; concrete dam 3,5 feet high, 30 feet long, with 1,3 miles of earth ditch.	Former owner: Bernardo Micora.
Springs tributeary to Gaps Ravine Tributeary to Doty Irrig. Lacres by sprinkler Caps Ravine Tributeary to Doty Irrig. Lacres by flooding Caps Ravine Tributeary to Doty Irrig. Lacres by flooding Lacres by flooding Caps Ravine Tributeary to Doty Irrig. Lacres by flooding	thur B. Hop	LI 92	Tributery to Doty Ravine	Irrig. Stock.	9 acree by flooding and sprinkler* 100 head	54	Alpari an	1	Deed	1870	Gravity; 0,3 mile of earth ditch.	Former owners: Cartwright, Whittaker, L. P. Singer. Area irrigated received supplemental water purchased from Nevada Irrigation District.
Caps Ravine Caps Raving Caps Raving Caps Ravi	ke Hamasaki		Springs tributary to Caps Ravine	Irrig.	acres	151	Riperian	ŀ	1	1957	Nump; 3-hp electric motor with 0.2 mile of 3.5-inch pipe.	Former owner: Bonnestill, Area irrigated received aupplemental water purchased from Newada Irrigation District.
Caps Ravine Stock. 30 head Stock. 45 head Stock. 46 head Stock. 47 head Stock. 48 head Stock. 48 head Stock. 48 head Stock. 49 head Stock. 40	Violet Moat		Caps Ravine	Irrig. Stock. Domestic	21 acres by flooding and furrow 12 head (c)	Not meas.	Approp.*	0.12 cfs	A-2190ª	1928	Gravity; 0.4 mile of 6- and 4- inch pipe.	Former owners: C. E. Holz, J. S. Ferreira. Appropriative water right assigned to Mary G. Ferreira and L. and V. Moats in 1958.
Tributary to Caps Ravine Caps	ank C. McEl	roy	Caps Ravine			62	Riparian	ŧ	Deed	1955	Gravity; earth dam 6 feet high, 6 feet long, with 0.2 mile of earth ditch.	Former owners: Logan, Virtue.
E. Tributary to Doty Irrig. 6 acres by flurow Mot meas. (b) Prof. 1925 Ravine Tributary to Doty Irrig. 10 acres by princher Ravine Tributary to Doty Irrig. 10 acres by sprinkler Ravine Stock. 100 head Tributary to Doty Irrig. 10 acres by sprinkler Ravine Tributary to Doty Irrig. 10 acres by sprinkler Ravine Tributary to Doty Irrig. 10 acres by sprinkler Stock. 100 head Stock.	uglas Newco	qu	Tributary to Caps Ravine		by flooding	Not meas.	Approp.	20 MI	Book B Pg. 242e	1909	Gravity; earth ditch 0.4 mile long.	Former owner: J. D. Logan.
E. Tributary to Doty Irrig. 6 acres by furrow 153 Approp. 0.075 efs A-4717a 1925 Ravine Tributary to Doty Irrig. 10 acres by sprinkler 13 Riparian 1870 Fributary to Doty Irrig. 10 acres by sprinkler 5 Riparian 1870 Tributary to Doty Irrig. 10 acres by sprinkler 5 Riparian 1870 Stock. 100 head flooding and flooding 5 Stock. 100 head sprinkler 5 Stock. 100 head	nglas Newco	qu	Caps Ravine		by flooding	Not meas.	Approp.	1	Book B Pg. 24.2e	1909	0.3 mile of	Former owner: J. D. Logan.
Tributary to Doty Irrig. 10 acres by furrow Not meas. (b) Prtor 1957	gar E. and Pellet*	Ina E.	\$		6 acres by furrow 20 head	153		0.075 efs	A-4717a	1925	Gravity; timber dam 1 foot high, 8 feet long, with 0.2 mile of earth ditch.	Ownership changed to Willard and Norma Duggan, September 1959. Forner owners: C. F. Deisel, H. F. Vierra.
Tributary to Doty Irrig. 14 acres by sprinkler 13 Riparian 1870 Stock. 100 head Tributary to Doty Irrig. 10 acres by sprinkler 5 Riparian 1873 And flooding and flooding stock. 100 head	.e. Deeral	tah lman*	to C	Irri ε_{ullet}	by furrow	Not meas.	<u>e</u>	1	1	Prior 1957	Gravity; earth dam 10 feet high, 200 feet long, with two earth ditches having a total length of 0.2 mile.	Ownership changed to Sierra Gold Nursery in 1956.
Tributary to Doty Irrig. 10 acres by sprinkler 5 Ripsrian 1873 Ravine Stock. 100 head	e e	per	2	Irrig. Stock.		13	Kiparian	1	1	1870	earth arth d	Former owners: Cartwright, Whittaker, L. P. Singer.
	thur B. Hop	radi	Tributary to Doty Ravine	Irrig. Stock.	10 agres by sprinkler and flooding 100 head	I/A	Riparian	1	1	C781	Gravity; small earth dam with O.2 mile of earth ditch.	Former owners: Cartwright, Whittaker, L. P. Singer,

* See remarke.
** See remarke.
** For additional information see Appendix D, "Detailed Decoriptions of Certain Surface Nater Diversions".
-- Information not svalleble.
For lettered footnotee, see last page of table.

Locotion				Water use in 1957		Арра	Apparent water right	ight	Indicated date of		
number ond Plote 2 sheet number	Oiversion nome and/or owner	Source	Purpose	Extent and method of use	Amount diverted in acre-feet	Type	Amount	Rsference	oppro- priotion or first use	Oescription of diversion system	Remorks
MDB&M					Coon Creek	sk Subuni	Subunit (Continued)	(pa			
13N/7E-3001 (Sheet 21)	Herman L. Robbins	Tributary to Doty Ravine	Irrig. Stock.	5 acree by flooding 14 head	Not meas.	Riparian	1	ı	1948	Gravity; O.1 mile of earth ditch.	Former owners: Herold, LaValle, Callison.
13N/7E-3002 (Sheat 21)	Harman L. Robbins	Tributary to Doty Ravine	Irrig. Stock.	4 acres by flooding 14 head	52	Riparian	ļ l		1948	Gravity; concrete dam 3 feet high, 40 feet lon, with 0.1 mile of earth ditch.	Former owners: Herold, LaValle, Calllson.
13N/7E-30H1 (Sheet 21)	Earl G. Calkins	Tributary to Doty Ravine	Irrig. Stock.	12 acres by oprinkler and furrow 15 head	£1	(9)	1		Prior 1914	Pump; 5-hp electric motor with 300 feet of 2.5-inch pipe.	Former owners: Herold, LaValle, Callison, Page, Kemper.
13N/7E-31H1 (Sheet 21)	Mrs. May Herold Mrs. Bernice Herold Rosei	Doty Ravine	Irrig. Stock.	36 acres by flooding 53 head	1,081*	Approp.	IN ON	Book A Pg. 1,12	1879	Gravity; concrete dam 15 feet high, 30 feet long, with two earth ditches having a total length of 1.5 miles.	Former owner: J. Thorpe. Reported amount diverted is for May - December only.
13N/7E-32H1 (Sheet 21)	Walter Allen	Caps Ravine	Irrig. Stock.	11 acres by flooding*	η, r	Riparian	1	ı	About 1849	Gravity; small rock dam with O.2 mile of earth ditch.	Former owners: Burge, C. Allen, Area irrigated received supplemental water purchased from Nevada Irrigation District.
13N/7E-32H2 (Sheet 21)	Walter Allen	Cape Ravine	Irrig. Stock.	18 acres by flooding 165 head	166	Riparian	1	1	About 1849	Gravity; concrete dam 4 feet high, 10 feet long, with 0.2 mile of 8-inch pipe.	Former owners: Burge, G. Allen.
13N/7E-32K1 (Sheet 21)	Walter Allen	Cape Ravine	Irrig. Stock.	4 acres by flooding 165 head	£4.	Riparian	1	1	About 1849	Gravity; concrete dam 10 feet high, 60 feet long, with 0.1 mile of earth ditch.	Former owners: Burge, G. Allen. Reported amount diverted is for June-October only.
13N/7E-32Q1 (Sheet 21)	Peter J. Bagdanoff	Tributary to Doty Ravina	Irrig. Stock.	8 acres by flooding and sprinkler 33 head	Not meas.	(9)	1	1	1954	Crewity and pump; earth dam 8 feet high, 75 feet long, with 6.1 mile of earth ditch and 3-hp electric-power pump with 0.2 mile of 2- and 3-inch pipe.	Former owners: Rankin, Pastel.
13N/7E-33E1 (Sheet 21)	Manuel A. Farry, Jr. Caps Ravine	, Caps Ravine	Irrig. Stock.	5 acree by flooding 50 head	Not meas.	Approp.	12 af	A-14884ª	1880	Gravity; earth dam 15 feet high, 300 feet long, with 0.1 mile of 8-inch pipe.	Former owners: Skinner, Young.
13N/7E-33HL (Sheet 21)	John C. Bertoglio	Tributary to Iron Canyon	Irrig. Stock.	48 acres by flooding 30 head	Not meas.	(a)	i	1	About 1940	Gravity; earth dam 10 feet high, 200 feet long, with two earth ditches having a total length of 0.8 mile.	Former owners: Hinckley, T. V. Doub.
(Sheet 21)	I. R. and Mary Souza Cape Ravine	A Cape Ravine	Irrig. Stock.	7 acres by furrow*	p97	(9)	1	1	1922	Gravity; small wood diversion box with 0.4 mile of 4-inch pipe.	Former owner: Harry N. Holmes. Area irrigated received supplemental water purchased from Nevada Irrigation District.
See renewice.	ata.										

* See Temarks.

* How additional information see Appendix O, "Detailed Descriptions of Cortain Surface Weter Diversions".

-- Information not available.

For lettered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Location				Water use in 1957		Appe	Apporant water right	right	Indicated date of		
number and Plate 2 sheet number	Olversion name and/or awner	Source	Purpose	Extent and method of use	Amount diverted in acre-feet	Туре	Amount	Reference	appro- priation or first use	Description of diversion system	Remorks
M D 8 & M					Coon. Cre	ek Subun	Coon. Creek Subunit (Continued)	(pa			
13N/75-34G1 (Sheet 21)	I. R. and Mary Souza Seilors	Sailors Ravine	Irrig.	6 acres by furrow*	55d	Approp.	0,125 cfs	A-1923a	1920	Gravity; concrete dam 4 feet high, 15 feet long, with 0.3 mile of earth ditch.	Former owner: Harry N. Holmes. Area irrigated received supplemential water purchased from Nevada Irrigation District.
13N/7E-34KI (Sheet 21)	Mrs. Julia Nunes	Sailors Ravine	Irrig.	12 acres by furrow	Not meas.	<u>e</u>	1	1	About 1917	Gravity; 400 feet of 6-inch pipe and 0.1 mile of earth ditch.	Former owner: Jacob Shinnler,
13N/7E-34P1 (Sheet 21)	Mrs. Julia Nunes	Sailors Ravine	Irrig.	13 acres by furrow	Not meas.	Riparian	1	1	1949	Pump; 2.5-hp electric motor with 350 feet of 3-inch pipe.	Former owner: Jacob Shinnler.
13N/7E-35A1 (Sheet 21)	Mrs. Mary G. Ferreira	Sailors Ravine	Irrig. Stock.	23 acres by flooding 60 head	171	Approp.	0.625 cfs	A-17223ª	1956	Gravity; concrete dam 4 feet high, 25 feet long, with 60 feet of 10-inch pipe and 0.7 mile of earth ditch.	Former owner: Mary Beerman.
13N/7E-36J1 (Sheet 21)	Stanley J. and Betty R. Samson	Sailors Ravine	Irrig. Stock.	25 acres by sprinkler*	25£	Approp.	0.07 cfs	A-15290ª	1952	Storage and pump; earth and rock dam 25 feet high, 120 feet long, with a 10-hp electric motor and 500 feet of 6-inch pipe.	Former owner: Roy Gassaway. Area irrigated received supplemental water purchased from Nevada Irrigation District.
13N/8E-14A1 (Sheet 21)	A. J. Marty	North Fork Dry Creek Irrig. Stock.	Stock.	15 acres by sprinkler 105 head Fishing in reservoir	Not meas.	(Q)	t t	1	Prior 1957	Gravity and storage; earth dem 28 feet high, 360 feet long, with short 4-inch pipeline.	
13N/8E-18F1 (Sheet 21)	John Rainey	Orr Creek	Irrig.	6 acres by flooding	Not meas.	Riparlan	1	1	About 1880	Gravity; earth and rock dam 2 feet high, 4 feet long, with 0.3 mile of earth ditch.	Former owners Lorenson.
13N/8E-18F2 (Sheet 21)	John Rainey	Orr Creek	Irrig.	4 acres by flooding	Not meas.	Riparian			About 1880	Gravity, earth and rock dam 2 feet high, 2 feet long, with 0.1 mile of earth ditch.	Former owner: Lorenson.
13N/8E-19C1 (Sheet 21)	Harold E. Hubbard	Dry Creek	Irrig. Stock.	31 acres by flooding*	Not meas.	Riparian	1	1	Prior 1900	Gravity; earth and rock dam 2 feet high, 10 feet long, with 0.5 mile of earth ditch.	Former owner: Recknagel. Area irrigated received supplemental water purchased from Nevada Irrigation District.
13N/8E-19H1 (Sheet 21)	John Rainey	Dry Greek	Irrig.	17 acres by flooding	Not meas.	Riparian	ł ·	1	About 1930	Gravity; rock dam 2 feet high, 20 feet long, with 0.5 mile of earth ditch.	Former owners: Huntley, Robert Rainey.
13N/8E-22E1 (Sheet 21)	Ralph E. Enzler	Dry Creek	Irrig. Stock.	9 acres by sprinkler	Not meas. Approp.	Approp.	0.22 cfs	A-15298ª	1953	Pump; 15-hp electric motor with 0.3 mile of 5-inch plpe.	
13N/8E-26F1 (Sheet 21)	Don L. snd Lillian D. Castle	Tributary to Dry Creek	Irrig. Stock.	10 acres by sprinkler	30	Approp.	0,16 cfs	A-14389a	1957	Pump; 5-hp electric motor with 0.3 mile of 3.5-inch pipe.	
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* See remarks.

** See additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions",

-- Information not swallable.

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	Remorks		Former owners: Hulbert, Teagarden, Lowery, Area irrigated received supplemental water purchased from Nevada Irrigation District.	Former owners: Simpeon, Ernie Sather.			Former owners: Finney, Bean.	Pormer owner: Exceleior Water and Mining Company. Stream flow of Deer Greek augmented by 168/95-281 end 178/12E-2012 (Donner Pass Subunit). Reported amount daverted ies for April 1957 - Warch 1958. Approprietive water right amount of 100 offs is total for this diversion and 168/8E-1281, 168/12E-1881, 168/9E-181, 168/		Area irrigated received supplemental water purchased from Nevada Irrigation District.	Area irrigated received supplemental water purchased from Nevada Irrigation District.	
	Description of diversion system		Grevity from springs adjacent Former to area of use. Neva	Aunp; 3-hp electric motor with Former 400 feet of 3-inch pipe.	Pump; 5-hp electric motor with 500 feet of 6-inch pipe and 0.4 mile of 4-inch pipe.		Gravity; rock and concrete dam Former 5 feet high, 60 feet long, with 1.2 miles of earth ditch.	Gravity; rock dam 4 feet high, Comper 35 feet long, with 26.0 Comp miles of earth ditch and light wood films. And the compensation of the compens	Gravity; concrete dam 2 feet high, 8 feet long, with 0.7 mile of earth ditch.	Gravity; concrete dum 2 feet high, 8 feet long, with 1.5 mate miles of earth ditch.	Crevity and storege; earth dam Area i 15 feet high, 200 feet long, with 0.2 mile of stream charnel and 0.4 mile of	
Indicated date of	oppro- priotion or first use		About 1860	1906	1930		About 1880	1860	About 1868	About 1868	1952	
ght	Reference	(p	1 2	A-142648	A-142668		1	A-16158	ł	1	A-14896ª	
Apporent woter right	Amount R	Coon Creek Subunit (Continued)	1	0.05 cfs	0.375 cfs	Subunit	1	100 cf ³ s	t	ļ	10 af	
Appoi	Type	sk Subuni	Riparian	Approp.	Approp.	Deer Creek	Nips riun	Арргор.	Approp.	Approp.	Approp.	
	Amount diverted in ocre-feet	Coon Cree	Not meas.	33	379	00	61	15,043*	323	132d	4 8	
Woter use in 1957	Extent and method of uss		8 acres by furrow* (c)	6 acres by eprinkler and flooding	40 acres by furrow		14 scres by flooding 50 head (c)	(3)	15 acres by flooding 500 head	102 acres by flooding*	15 acres by flooding*	
	Purpose		Irrig. Domestic	Irrig.	Irrig.		Irrig. Stock. Domeetic	Irrig. Stock. Domestic	Irrig. Stock.	Irrig.	Irrig. Stock.	
	Source		Springs tributary to Irrig. 8 acres by furrow* Deadman Canyon Domestic (c)	Rock Greek	Tributary to Rock Greek		Deer Creek	Deer Creek*	Nigger Creek	Nigger Creek	Nigger Greek	
	Oiversian name and/ar owner		August Henriquee	James E. and Elsie W. Webb	Alvin W. Mueso		Donald and Charlee Staples	China Ditch Nevada irrigstion District	Roy Van Tiger	Noy Van Tiger	Malcolm R. Hill	
Locotion	number ond Plote 2 sheet number	M D B & M	13N/8E-31D1 (Sheet 21)	13N/8E-34F1 (Sheet 21)	13N/8E-34H1 (Sheet 21)		16N/6E-2411 (Sheet 15)	16N/7E-20E1 (Sheet 15)	16N/7E-21N1 (Sheet 15)	16N/7E-22N1 (Sheet 15)	16N/7E-23NI (Sheet 15)	

* See remarks.

* Por additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

-- Information not available.

For lettered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Locotion				Woter use in 1957		Appo	Apparent water right	right	Indicated		
number ond Plate 2 sheet number	Diversion nome ond/or owner	Source	Purpose	Extent and method of use	Amount diverted in ocre-feet	Туре	Amount	Reference	appro- priotion or first use	Description of diversion system	Remarks
M D B & M					Deer Cre	Creek Subunit (Continued)	(Continue	(pa			
16N/7E-26N1 (Sheet 15)	Albert J. Nightingale	Tributary to Squirrel Creek	Irrig. Stock.	9 acres by sprinkler 30 head	Not meas.	Approp.	0.25 cfs	A-16626ª	1952	Rump; 7-hp gasoline engine with 400 feet of 4-inch pipe and 300 feet of 2-inch pipe.	
16N/7E-29E1 (Sheet 15)	Union Ditch J. C. Peacock	Squirrel Greek	Irrig. Stock.	69 scres by flooding and sprinkler* 90 head	1,107,	Riparian	1	1	Prior 1920	Gravity; concrete and rock dam 16 feet high, 30 feet long, with 2.2 miles of earth ditch.	Former owners; Herbert J. Mile, Burtener. Area irrigated received sup.lemental water purchased from Nevada Irrigation District. Reported amount diverted is for 4/10/57 - 12/31/57 only.
16N/7E-33C1 (Sheet 15)	E. S. Hass	Squirrel Greek	Irrig.	3 acres by sprinkler	Not meas. Miparian	Miparian	1	1	Prior 1957	Pump; 2-hp gasoline engine With 1.5-inch pipeline.	Former owners: Thomas E. Dee, McGlll, Peterson.
16N/7E-35C1 (Sheet 15)	Carl Niesen	Grubb Greek	Irrig. Stock.	34 acres by flooding*	Not meas.	Riparian	1	Deed	Abou t 1852	Gravity; wood dam 5 feet high, 20 feet long, with two earth ditches having a total length of 0.4 mile.	Former owners; James Ennor, Jesse Ennor. Area irrigated received supplemental water purchased from Nevada Irrigation District.
16N/7E-35D1 (Sheet 15)	Ralph J. and Lois Winslow	Soulrrel Greek	A. · · · · · · · · · · · · · · · · · · ·	*	None	Riparian	1	Deed	About 1852	Gravity; small earth dam with O.4 mile of earth ditch.	Former owners: James Ennor, Jesse Ennor. Irrigated 64 acres by flooding jointly with 16N/7E-35D2 until 1956.
16N/7E-35D2 (Sheet 15)	Ralph J. and Loie Winslow	Grubb Creek	Irrig.*	*	None	Riparian	1	Deed	About 1852	Gravity; small earth dam with 50 feet of wood flume to ditch from 16N/7E-35D1.	Former owners: James Ennor, Jesse Ennor, Irrigated 64 acres by flooding jointly with 16N/7E-35DI until 1956.
16N/8E-12Kl (Sheet 16)	Newtown Ditch Nevada Irrigation District	Deer Creek*	Irrig. Stock. Domestic	(5)	4,701	Approp.	*	A-1615ª	1851	Gravity; concrete dam 2 feet high, 120 feet long, with 19.0 miles of earth ditch and wood flume.	Former owner: Excelsion Water and Mining Company. Stream flow of Deer Creek augmented by 16N/92-R1 and 17N/122-2012 (Donner Pass Submit). ** See 16N/72-20El for water right amount.
16N/8E-14C1 (Shert 16)	Leland H. Brown	Deer Creek	Irrig. Stock. Mining	16 acres by flooding 20 head Placer mine	Not meas. Hiparian	Hiparian	1	Deed	Prior 1900	Gravity; small rock and gravel dam with 1.8 miles of earth ditch.	Former owners: William Brown, Jerry M. Brown,
16N/8E-18M (Sheet 16)	Tunnel Ditch Nevsda Irrigation District	Deer Greek*	Irrig. Stock. Domestic	(3)	5,153*	Approp.	*	A-1615a	1852	Gravity; concrete dam 8 feet high, 80 feet long, with 12.0 miles of earth ditch and tunnel.	Former owner: Excelsior Water and Wining Company. Stream flow of Deer Greek augmented by 16W/9E-2M and 17W/12E-2020 (Donner Reas Subunit). Reported amount diverted for 1957 is for April - December only. Amount shown in parenthreas is total for 1998. See 16W/7E-20EL for water right amount.
16N/8E-20M1 (Sheet 16)	Edwin A. Deutler	Spring tributery to Deer Creek	Irrif.	12 acres by flooding (c)	Not meas.	Kiparian	1	1	Prlor 1900	Gravity; 75 fect of 6-inch pipe and 0.2 mile of earth ditch.	Pormer owners: Frank Seely, Dierwägen.
16N/8E-21G1 (Sheet 10)	Clifford G. Thorson	Slate Creek	Irrig. Stock.	13 scres by flooding 30 head	Not meas, filparian	Mparian	1	Deed	Prior 1900	Gravity; small earth dam with 2.5 miles of earth ditch.	Former owners: Davis, Wall.
					1		I	1			
* See remarks.	ke.										

* See rearkie. * See rearkie. * Por additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions". *- Information not evailable.

For lettered footnotes, see last page of table.

numbsr				Water use in 1957		App	Apporant woter right	right	todicated data of		
Picts 2 shast number	Oiversion noms ond/or owner	Seurce	Purposa	Extent and method of use	Amount diverted in ocrs-fsst	Typs	Amount	Refersnce	appro- prietion or first use	Osscription of diversion system	Remorks
M D B & M					Deer	eek Subur	Deer Creek Subunit (Continued)	(pe		1	
16N/8E-22H1 (Shert 16)	John J. Looser	Slate Creek	Irrig.	10 acres by flooding*	Not meas. Riparian	Riparian	1	1	About 1875	Gravity; small wood dam with O.2 mile of earth ditch.	Former owners: Morgan, Rowe, Area Irrigated received supplemental water purchased from Nevada Irrigation District.
16N/9E-2R1 (Sheet 16)	Scotts Flat Dam Nevada Irrigation District	Deer Creek	Irrig. Stock. Domestic	*	Not meas. Approp.		60,000 af	A-1614 ^a	1947	Storage, earth dam 140 feet high, 722 feet long, with 27,400-acre-foot reservoir releasing into etrean channel for rediversion downstream.	Amount diverted used to supplement l6N/72-20E1, 16N/9E-12M1, l6N/9E-10H1,**
16N/9E-7H1 (Sheet 16)	Nough and Ready Ditch Nevada Irrigation District	Deer Greek*	Irrlg. Stock. Domestic	(3)	2,746*	Approp.	*	A-1615ª	1850	Gravity; maisonry dam 15 feet high, 80 feet long, with 13.3 miles of earth ditch.	Pormer owner: Excelsior Water and Wining Company. Stream Invo of Deer Creek augmented by 16W/95-2M and ITW/12E-202 (Donner Pase Subunit). Reported amount diverted is for April 1957 - March 1958. See 16W/7E-20EL for water ri th amount.**
16N/9E-10B1 (Sheet 16)	D-S Canel (Deer Greek Reservoir) Nevada Irrigation District	Deer Greek*	Irrig. Stock. Domestic	(6)	30,063*	Approp.	*	A-1615	1928	Gravity and atorage; concreta variable redius arch dam 92 feet high; 3% feet long, with 1,400-acre-foot reservoir and 24,0 miles of earth ditch and wood flume.	Stream flow of Deer Creek augmented by 16N/9E-2Al and 17N/12E-2AJE (Dorner Pass Subunit). Hepothed amount diverted is for April 1957 - March 1958. See 16N/7E-2OEl for water right amount.**
16N/9E-17J1 (Sheet 16)	Nevada City Water Department	Little Dear Greek	Munic.	2,562 pereone*	3,272*	Approp.	170 MI	1	1910	Gravity; concrete box 12 feet equare at foot of falls with 0.6 mile of 18-inch pipe, 0.5 mile of earth ditch, and 0.4 mile of 9-inch pipe to reservoir.	Supplies community of Nevada City. Supplemented by water purchased from Nevada Irrigation District. Reported amount diverted is for 1956.
17N/10E-32E1 (Sheet 13)	Nevada Irrigation District	North Fork Deer Greek	Irrig. Stock. Domestlc	*	*	(e)	1	1	Prior 1957	Gravity; concrete dam 10 feet high, 35 feet long, with 0.1 mile of wood flume to wood flume from 17N/10E-32M1.	Amount diverted and details of use reported under 17N/105-32M.
17N/105-32M1. (Sheet 13)	Snow Mountain Ditch Navada Irrigation District	South Fork Deer Greek*	Irrig. Stock. Domestic	(F)	4,782**	Approp.	*	A-1615ª	Prior 1901	Gravity; masonry dam 16 feet high, 60 feet long, with 15 miles of earth ditch and wood flume.	Pormer owners: South Yuba Water Company, Pacific Gas and Electric Company. Stream flow of Deer Greek augmented by ITW/LZB-20JC Chonner Pass Subunit). Reported amount diverted is for April 1957 - March 1958 and includes uil water diverted by ITW/10E-32EL. See 16N/TB-20EL for water right amount.**
(Sheet 13)	Cascade Canal Nevada Irigation District	South Fork Deer Greek	Trig. Stock. Domestic	(F)	25,220*	Approp.	*	A-1615ª	Prior 1901	Gravity; concrata dam 20 feet high, 50 feet long, with 58.0 miles of earth ditch, pipe, and wood flume.	Pormer owners: South Yuba Water Company, Patific Gas and Electric Company. Stream flow of Deer Greek augmented by IVM/1282-2012 (Domner Pass Subunit). Reported amount diverted is for April 1957 - March 1958. See 16M/75-20El for water right smouth.

* See remarke.
** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
-- Information not evallable.
For lattered footnotee, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

The Sugar Fire Caryon Creek Event and settled Caryon Creek Event and settled Caryon Creek Caryon	Location				Water use in 1957		Appo	Apparent woter right	ight	Indicated dote of			
Defect Property	ond late 2 of number	Diversion name and/or owner	Source	Purpose		Amount diverted in ocre-feet	Туре		Reference	appro- priation or first use	Description of diversion system	Remorks	
Those Signs Fire	DB&K					Doc	ner Poss	Subunit					
Note that Note	/11E-4F1	Tahoe Sugar Pine Company			Lumber mill 200 persons*		Approp.	1	1	About 1850		Former owners: Callahere, Bradley, J. Crowley and J. Phelps. Supplies community of fashington. Reported amount diverted is for July - December only.	
Newda Irrigation Trap Gradk	/125-601 heet 14)				*			15 cfs 15 cfs 10 cfs 10 cfs 85 cfs 85 cfs 7,000 af	A-1270ª A-2372ª A-6701ª A-6702ª A-8178ª A-8180ª	1927		Amount diverted includes all water diverted by 18N/12E-38Ls and 18N/12E-39HL. Combined supply used to supplement 18N/12E-8C2 (Bowman-Spaulding Conduit).**	
Newada Irrigation Aucker Creek Lirig. (*) Not meas. Approp. 25 cfs A-8189	/125-6M	Nevada Irrigation District			*			5 cfs 5 cfs 5 cfs 5 cfs 15 cfs 15 cfs 3,000 af	A-1270ª A-2370å A-6701ª A-6702ª A-8178ª A-8180ª	1927		Amount diverted used to supplement 18N/12E-8C2 (Bowman-Spaulding Conduit).	
Pacific Gas and Pacific Ga	/12E_7H1 heet 14)	Nevada Irrigation District			*			25 cfs 25 cfs 5,000 af	A-8178ª A-8180ª	1927		Amount diverted includes all water diverted by 17W/12E-951 and 17W/12E-952. Combined supply used to supplement 18M/12E-862 (Bowman-Spaulding Conduit).**	
Blue Lake Pacific Cas and Electric Company Power Pacific Cas and Electric Company Power Power Pacific Cas and Electric Company Power Power		Rucker Like Pacific Ges and Electric Company	Bucker Greek	Irrig. Domestic Munic. Power	*	Not meas.	2	1		1871	Storage; earth and rock dam, 20 feet high, 765 feet long, and 620-acte-foot reservoir releasing into stream channel for rediversion by 17N/12E-7H1.	Stored for subse uent use in Pacific Gae and Electric Comeny's power and water supply systems.**	
Pailte Lake Jordan Greek Irri. (*) Not meaa. (b) 1870 Storage, earth dam, 36 feet Donestic Campany Power	/12E-9C1	Blue Lake Pacific Gas and Electric Company		Irrig. Domestic Munic. Power	(*)	Not meas.	(2)	1	!	1870	ะจิ	Stored for subsequent use in Pacific Gas and Electric Company's power and water supply systems.	
	/12E-17B1 heet 14)	G.		Irri Donestic Munic. Power	*	Not meas.	9	1	!	1870	Storage, earth dam, 36 feet high, 365 feet long, and 1,130 acre-foot reservoir.	Reservoir used as forebay for Spaulding Poverhouse No. 3.**	
							1			1			
					Iğ					1		7	

* See remarks.
** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
-- Information not available.
For lattered footnotes, see last page of table.

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^	UNIT
DIVER	APHIC
WAIER DIVERSIONS	HYDROGRAPHIC
SURFACE	RIVERS HY
Ö	
SCRIPTION:	YUBA-BEAR

								Links	Indicated		
Location	office colsection			Water use in 1907		TAX I	Appelon worst right	100	date of	:	
and Plots 2 sheet number	and/or owner	Source	Purpose	Extent and method of use	Amount diverted in acre-feet	Туре	Amount	Raferance	oppro- prietion or first use	Description of diversion system	Remarks
MDB&M					Danner Po	ass Subu	Danner Pass Subunit (Contraves)	Jean,			
17N/12E-20H1 (Sheet 14,)	(Sheet 14) Electric Company Electric Company	South Yuba Myver	Irrig. Domestic Munic. Power	€	Not meas.	②	1	1	1892	Storage; variable radius connects arch dam, 275 feet high, 800 feet long, concrete gravity dam 25 feet high, 800 feet long, and concrete gravity dam 55 feet high, 800 feet long, forming a 74,488-acre-foot reservoir with short pressure turnel to Spaulding Powerhouses Nos. 1 and 2.	Former owner: South Yuba Mater Company, Regulates South Ynba Have; Including releases from upstream storage reservoirs of Pacific Goss and Electric Go. and 18M/12E-802 (Bowman-Spaulding Conduit), to supply IPM/12E-2013 and IPM/12E-2012. Present dam located one-half mile below original structure.**
17N/12E-20J (Sheet 14)	Drum Canal Pacific Gee and Electric Company	Lake Spaulding via Spaulding Power- house No. 1.	Power	6,400 kv installed generating capacity at Spaudding Powerbouse No. 1. 48,000 kv installed generating capacity at Drum Powerbouse	305,400*	(a)	1	1	1913	Gravity; 8.4 miles of canal and flume from Spaulding Powerhouse No. 1 to Drum Forebay.	Water released from Drum Powerhouse augments flow of Bear River for 16W/llE-1/El (Dutch Flat Subunit) and 15W/9E-22Ql (Combie Subunit), **
17N/12E-201; (Sheet 14)	(Sheet 14) Electric Company Electric Company	Lake Spaulding via Spaulding Fower- house No. 2	Power	3,370 kv installed generating capacity et Spanding Poverhouse No. 2 5,500 kv installed generating capacity at Deer Creak Poverhouse*	65,690*	ê	1	1	1865	Grevity; 18 miles of canal, flume, and turnel, from Spanishing Poverhouse No. 2 to Deer Greek Powerhouse Porebay.	Former owner: South Tuba Water Company. Of reported amount diversed 10,106 acre-feet were released to the Bear Hiver to augment I now for 15M/95-2201 (Combie Subunit) and I7M/11E-36D1 (Outch Flat Subunit). Water released from Deer Greek Powerhouse is used to supplement Newada Irrigation District diversions from Deer Greek, **
17N/12E-22CL (Sheet 14)	Chubb Lake Boy Scouts of America-Marin Council.	Tributary to Gonelson Canyon	Recr. Fire prot.	Swimming, boating, and fishing in reservoir	Not meas. Approp.	Approp.	42.5 af	A-13399&	1949	Storage; earth dam 8 feet high, 138 feet long.	
17N/12E-24K1 (Shest 14)	Crystal Lake Central Pocific Railroad Company	Tributary to South Yuba River	Domestic	(e)	Not meas.	ê	1	ı	1920	Storage and gravity; concrete dam 9 feet high, 300 feet long, 200-acre-foot reservoir, and pipeline.	
17N/13E-10A1 (Sheet 14)	Lake Sterling Pacific Gas and Electric Company	Tributary to Fordyce Greek	Irrig. Domestic Munic. Power	(*)	Not meas.	(9)	1	1	1877	Storage; rock fill dam 25 feet high, 225 feet long, and 1,664eacre-foot reservoir releasing into stream channel for rediversion by 18N/138-3417 (Lake Fordyce).	Former owner: South Yuba Water Company. Stored for subsequent use in Pacific Gas and Electric Company's power and Water supply sustems.**
17W/14E-23M (Sheet 14)	(Sheet 14) Electric Company Electric Company	South Yuba River	Irig. Domestic Munic. Power	(*)	Not meas.	a	1	1	1916	Storage; earth and rock dam 27 feet thigh, 1,637 feet long, and 5,844-ecce-foot reservoir releasing into stream channel for rediver- sion by 17N/ZE-06H. (Lake Spaulding)	Stored for subsequent use in Pacific Gas and Electric Company's power and water supply systems.**
* See remarks	Pkm.										

See remarks.
 Additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
 Information not remailable.
 For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Location				Water uss in 1957		Арр	Apparent water right	right	Indicated		
number and Plate 2 sheet number	Diversion name and/ar awner	Source	Purpose	Extent and methad of use	Amount diverted in acre-feet	Type	Amount	Rafaranca	appra- priation. or first use	Dsscription of diversion system	Remarks
N D B & N					Danner Po	ass Subur	Danner Pass Subunit (Continued)	led)			
17N/14E-29E1 (Sheet 14,)	Kidd Lake Pacific Gae and Electric Company	Tributery to South Tube River	Irrig. Domestic Munic. Power	*	Not meas.	(9)	1	ı	1855	Storage; earth and rock dam to feet high, 430 feet long, and 1,492 ecre-foot reser- obs.relasting into stream channel for rediversion by lTW/128-20fil (fake Spaulding).	Stored for subsequent use in Pacific Gas and Electric Company's power and water supply systems.**
17N/14E-30R1 (Sheet 14)	Lower Pesk Lake Pacific Gas and Electric Company	Tributary to South Tubs River	Irmig. Domestic Munic. Power	*	Not meas.	(9)	1	1	1860	Storage; earth and rock dam 32 feet high, 655 feet long, and high-acre-foot reservoir releasing into stream channel for rediversion by ITN/12E-20HI (lake Speulding)	Stored for subsequent use in Pscific Gas and Electric Company's power and water supply systems.**
17N/14E-32D1 (Sheet 14)	Upper Peak Lake Pacific Gas and Electric Company	Tributary to South Tubs River	Irrig. Domestic Munic. Power	*	Not meas.	9	1	1	1850	Storage; earth and rock dam 37 feet high, 290 feet long, and 1,607 acre-foot reservoir releasing into stream channel for rediversion by 17K/12E-20HI (Lake Spaulding),	Stored for subsequent use in Pacific Gas and Electric Company's power and water eupply systems##
17N/15E-16E1 1 (Sheet 14)	Lake Angela Central Pacific Rallroad Company	Tributary to South Tuba River	Domestic	(0)	Not meas.	2	1	1	1924	Storage and gravity; concrete dam 22 feet high, 697 feet long, 215 acre-foot-reservoin and pipeline.	
17N/155-20A1 (Sheet 14)	Lake Mary Central Pacific Railroad Company	Tributary to South Tube River	Domestic (c)	(°)	Not meas.	2	1	1	1926	Storage and gravity; earth dam 25 feet high, 600 feet long, 172-acre-foot reservoir, and pipeline.	
18N/11E-36J1 (Sheet 10)	(Sheet 10) District District	Clear Greek	Irrig. Mining Domestic Power	*	Not meas.	Approp. Approp. Approp. Approp.	5 cfs 5 cfs 30 cfs 6,000 af	A-6701a A-6702a A-8178a A-8180a	1927	Gravity, stream intercepted by /1818-862.	Amount diverted used to supplement 18N/12E-8G2 (Bowman-Spaulding Conduit);
(Sheet 11)	Bowman Lake Nevada Irrigation District	Canyon Greek	Irrig. Mining Domestic Power	*	85,456*	Approp.	63,325 af	A-1270a A-2372a (*)	1872*	Storage; constant radius arch concrete dam, 108 feet high, 400 feet long, and a rook fill dam 171 feet high, 700 feet long, with 65,000-acrefoot reservoir releasing to 188/12E-802 via 0,2 mile of natural channel.	Mining Company, Northern Water and Mining Company, Northern Water and Power Company, Radiverts water under Application Nos. 2275, 2276, 8177, and 8179 in addition to diversions under Application Nos. 1270 and 2372. Present dam constructed in 1927, Amount diverted includes all water diverted includes all water law in the Application of Nos. 1927, Amount diverted includes all water diverted includes all water and verted and present and pay 1738-1711.
				10							Combined amount and that diverted by 19W/12E-12M1 (Alleghany Subunit) used to supply ISM/12E-802,**
* See remarks.											

* See remarks.

** See remarks.

** Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

**- Information not evalable.

For lettered footnotes, see last page of table.

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Purpose	Water uss in 1957		-			dote of	Osseription of	
	Extent and method of use	Amount diverted in ocrs-feet	Туре	Amount	Rafarence	appra- priotion or first use	diversion system	Rsmarks
	o'	Jonner Po	Ss Subuni	Donner Poss Subunit (Continued)	(p:			
Irrig. Mining Domestic Power	(*)	123,259*	Approp.	200 cfs	A-12708 A-23728 (*)	1927	Gravity; concrete dam 40 feet high, 150 feet long, with 11.3 miles of canal, metal fluwe, and tunnol with e capacity of 250 cfs.	Reported amount diverted is supplied by water impounded in 18K/125-851 (Borman Lake). In addition to this amount supplemental supply is received from 1TM/22-601, ITM/225-401, ITM/225-711, ISM/125-401, ITM/225-711, ISM/125-191 and ISM/125-2011 (lake Seneration of power and supplemental supply to 1TM/125-2011 (lake
Irrig. Mining Domestic Power	•	Not meas.	Approp.	615 af 615 af	A-12708 A-23728	Prior 1901	Storege; rock fill dam 50 feet high, 38, feet long, with 3,375-erre-foot reservoir releasing to 18W/12E-801 vie 0.8 mile of natural channel.	Former owners: North Blocmfield Gravel and Minist Company, Northern Water and Power Company. Amount diverted includes all water diverted by 18M/12z-4701 and 18M/12z-17P1. Combined supply used to supplement 18N/12z-801 (Bowman Lake).**
Irrig. Domestic Munic. Power	*	Not meas.	(2)	l	1	1855	Storage; earth and rock dam 20 feet high, 230 feet long, and 207-acre-foot reservoir releasing into stream channel for rediversion by 18N/12E-19F1.	Stored for subsequent use in Pacific Gas and Rietric Company's power and water supply systems. **
Irrig. Domestic Munic. Power	(*)	Not meas.	②	Į.	;	1872	Storage; earth and rock dam 19 feet high, 258 feet long, and 890-acre-foot reservoir releasing into stream channel for rediversion by 18N/12E-19Ft.	Stored for subsequent use in Pacific Gas and Electric Company's power and water supply systems. **
Irrig. Mining Domestic Power	*	Not meas.	Approp. Approp. Approp.	30 cfs 30 cfs 70 cfs 70 cfs 14,000 af	A-1270a A-2372a A-8178a A-8180a	1927	Gravity; masonry dam 40 feet high, 30 feet long, with 300 feet of wood flume to connection with 18N/12E-802.	Amount diverted includes all water diverted by 18N/12E-15N1, 18N/12E-15N1 and 18N/12E-20F. Combined supply used to supplement #8N/12E-8C2 (Bowman-Spaulding Conduit).
Irrig. Domestic Munic. Power	*	Not meae.	a	1	ŧ	1870	Storage; earth and rock dam 17 feet high, 486 feet long, and 320-eare-foot reservoir releasing into stream channel for rediversion by 18N/12E-19FL.	Stored for subsequent use in Pocific Gae and Electric Company's power and water supply systems.**
Irrig. Domestic Munic. Power	*)	Not mess.	(4)	1	1	1870	Storege; earth and rock dam 9 feet high, 372 feet long, and 102-acre-foot reservoir releasing into stream channel for rediversion by 18M/12E-19FL.	Stored for subsequent use in Pacific Gas and Electric Company's power and water supply systems, **

* See remarks.
** For remarks.
** To additional information see Appendix D, "Detailed Descriptions of Certain Surface Mater Diversions".
** For interestion not evailable.
** For lettered footsofes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

				Water use in 1957		App	Apparent water right	ight	Indicated		
number and Piate 2 sheet number	Diversion nome ond/or owner	Source	Purpose	Extent and method of use	Amount diverted in ocre-fest	Туре	Amount	Reference	date of appro- priction or first use	Description of diversion system	Remorks
MDB&M					Donner P	ass Subur	Donner Pass Subunit (Continued)	ed)			
18N/12E-26L1 (Sheet 11)	Downey Lake California State Department of Fish and Game	Granite Creek	Recr.	Fishing	Not meas.	(e)	1	I	1954	Storage; earth dam 13 feet high, 25 feet long, 162- acre-foot reservoir.	
18N/12E-27C1 (Sheet 11)	Island Lake Nevade Irrigetion District	Tributary to Canyon Creek	Irrig. Mining Domestic Power	(*)	Not meas.	Apparop.	1	1	1901	Storage; rock dam li feet high, 93 feet long, with 330-acre-foot reservoir releasing to 18M/2E-llni via 3.5 miles of natural channel.	Former owners: North Bloomfield Gravel and Mining Company, Northern Weter and Power Company. Amount diversed used to supplement ISN/ISE-IIDI.**
18N/12E-28E1 (Sheet 11)	Upper Feeley Lake Pacific Gas and Electric Company	Lake Greek	Irrig. Domestic Munic. Power	*	Not meas.	ê	1	1	1870	Storage; earth and rock dam 22 feet high, 186 feet long, and 780-acre-foot reservoir releasing into stream channel for rediversion by 17N/12E-6D1.	Stored for subsequent use in Pacific Gasand Electric Company's power and water supply systems. **
18N/12E-29H1 (Sheet 11)	Lower Feeley Lake Pacific Gas and Electric Company	Lake Greek	Irrig. Domestic Munic. Power	*	Not meas.	9	ı	I	1870	Storage; earth and rock dam 17 feet high, 150 feet long, and 184-ecre-foot reservoir releasing into atream channel for rediversion by 17N/12E-6D1.	Stored for subsequent use in Facific Gas and Electric Company's power and water supply systems.**
18N/13E-17F1 (Sheet 11)	(Sheet 11) Nevada Irrigation District	Canyon Greek	Irrig. Mining Domestic Power	*	Not mess.	Approp.	1	1	1859	Storage; rock dam 100 feet high, 200 feet long, with 12,500-acre-foot reservoir relessing to 18M/12E-llDl vie 3.5 miles of natural channel.	Former owner: Summit Water and Irrigetion Company, Empire Mines and Investment Company. Amount diverted used to supplement 18W/12E-11D1.**
18N/13E-27B1	Meadow Lake Pecific Ges and Electric Company	Tributary to Fordyce Lake	Irrig. Domestic Munic. Power	*	Not mess.	<u> </u>	1	1	1864	Storage; earth and rock dam 37 feet high, 1,020 feet long, and 4,800-acre-foot reservoir relashing into stream channel for rediversion by 18W/13E-34,11 (Lake Fordyce).	Former owner: South Yubs Water Company. Stored for subsequent use in Pecific Gas and Electric Company's power and water supply systems.**
18N/13E-34J1 (Sheet 11)	Lake Pordyce Pacific Gas and Electric Company	Fordyce Creek	Irrig. Domestic. Munic. Power	(*)	Not meas.	Approp.	26,582 af 26,670 af	A-3550a	1873	Storage; rock fill dam 140 feet high, 965 feet long, and 46,662-acre-foot reservoir relasing into stream channel for rediversion by 17N/12E-20H1 (take Spaulding).	Former owner: South Tuba Weter Company. Stored for subsequent use in Pacific Gas and Electric Company's power and water supply systems. Rediverte water released by ITW/138-10Al, 18W/13E-Z/Bl and 18W/14E-Z2B1.**
18N/145-22B1 (Sheet 11)	18W/L/E-22Bl White Rock Lake (Sheet 11) Racific Cas and Electric Company	White Rock Greek	Irrig. Domestic Munic. Power	*	Not meas.	3	1	1	1850	Storage, gravel, rock, and earth dam 19 feet high, 285 feet long, and 578-acre-foot reservoir releasing into stream channel for rediver- eion by 188/138-34-11 (lake Fordyce).	Stored for subsequent use in Pacific Gas and Electric Company's power and water supply systems.**
* See remarks.	ka,										

** For additional information ese Appendix D, "Detailed Descriptions of Certain Surface Water Diversions". — Information not evailable.

For lettered footnotes, see last page of table.

Lecetion				Water use in 1957		App	Apparent woter right	right	Indicated date of		
number and Plate 2 shast number	Oiversion name ond/or owner	Seurce	Purpose	Extent and method of use	Amount diverted in ocre-feet	Туре	Amount	Reference	appra- priation or first use	Oescription of diversion system	Remarks
MDB&M					Donner	ass Subu	Donner Pass Subunit (Continued)	ned)			
19N/13E-31N1 (Shaet B)	19N/13E-31NI Jackson Lake (Shoet B) Nevada Irrigation District	Jackeon Greek	Irrig. Mining Domestic Power	*	Not meas.	Approp.	1,060 af	A-1270ª A-2372ª	Prior 1857	Storage; sarth dam 22 feet high, 755 feet long, with 1,000-acre-foot reservoir releasing to 18N/12E-8CI via 3 miles of natural channel.	Storage; sarth dam 22 feet high Former owner: Summit Water and Irrigation 755 feet Long, with 1,000- Company, San Juan Gold Mining Company, acre-foot reservoir releasing Amount diverted used to supplement to 18N/12E-8C1 (Bowman Lake),*** natural channel.
					- or	Dry Creek Subunit	Subunit				
15N/7E-23E1 (Sheet 17)	M. C. Clingan	Tributary to Indian Springs Creek	Stock.	200 head	Not meas.	ê	1	1	About 1945	Storage; earth dam 25 feet high, 200 feet lang, with 35-acre-foot reservoir.	Former owner: Pat Shannon.
15N/7E-25H1 (Sheet 17)	Clarence R. Black	Dry Greek	Irrig. Stock. Recr.	26 acree by sprinkler 20 head Swimming in reservoir	62	Approp.	0.25 cfs	A-15184ª	About 1953	Pump and storage; concrete dam 6 feet high, 20 feet long, and 7.5-hp electric-powered pump with 4-inch pipeline.	Former owner: W. E. O'Dell.
15N/8E-30J1 (Sheet 18)	Lowell L. Eleter	Tributary to Dry Greek	Irrig. Stock.	5 acree by flooding* 30 head	Not meas.	Riparian	1	Patent	Prior 1907	Gravity; small earth and rock dam with 0.1 mile of earth ditch.	Crocker and Sanderson, Ico, Jellinck, C. Eister, J. Elbers. Area Irrigated received supplemental water purchased from Nevada Irrigation District.
15N/8E-30K1 (Sheet 18)	Lowell L. Elster	Tributary to Dry Greek	Irrig. Stock.	5 acres by flooding* 30 head	Not meas. Riparian	Riparian	1	Patent	1907	Gravity; small earth and rook F dam with O.1 mile of earth ditch.	Former owners: Central Pacific Railroad, Crocker and Sanderson, Yeo, Jellinck, G. Elster, Area irrigated received supplemental water purchased from Nevada Irrigation District,
					آه	Dutch Flot	Subunit				1000
16N/10E-25P1 (Sheet 16)	1 Alta Powerhouse Afterbay Pacific Gas and Electric Company	Little Bear River	Irrig. Domestic Munic.	*	Not meae.	(9)	1	ı	1902	Grevity; diverted directly from afterby to canal from 17N/llE-36D1.	Amount diverted used to supplement ITM/11E-36D1 (Boardman Canal).**
16N/10E-36F. (Sheet 16)	(Sheet 16)	Tributary to Bear Hiver	Irrig.	6 acres by sprinkler and flooding Fishing	Not meas.	②	;	1	1854	Storage and pump; earth dam 30 feet high, 735 feet long, with pump.	Former ownerest Decker, Linn. Ownership changed to I. J. Scott, et al in 1959.
16N/10E-36Q1 (Sheet 16) (Import from American River Hydro- graphic Unit.)	16W/10E-96Q1 Pulp Mill Canal (Sheet 16) Pacific Gae and (Import from Electric Company American River Hydrographic Unit)	Canyon Creek	Irrig. Domestic Munic.	•	758*	1	1 1	1	1	1	Reported amount directed used to supplement 17N/11E-36D1 (Boardman Canal).

* Sec remarks.

* Sec remarks.

* To additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

- Information not swallable.

For lettered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

	Rsmorks		Reported amount diverted is for 5/1/58 - 12/31/58 only. Amount diverted used to aupplement 17N/11E-36D1 (Boardman Canal).**	Stream flow of Bear River sugmented by 17W1ZE-ZOJI (Drum Canal). Release from powerhouse augments flow of river for 15W/9E-Z2GI (Combie Subunit).**	Reported amount diverted includes 1,942 acre-fest released to Canyon Creek from 17M/12E-2011 (Donner Peas Shunit) at the Drum Forebay and 16,591 acre-fest released to Canyon Creek from Freleased to Canyon Creek from Freleased to Canyon Creek from Physics of Canada 1,12 ad diverted through 4 miles of canal to the Alte Peatrock	then to the Lower Boardman Canal, Details of use reported under 178/11E-56D1 **	Former owner; South Yuba Water Company, Stream flow of Bear Haver augmented by 17N/122-2012 (Donner Pass Subunit), In addition to reported amount diverted supplemental aupply to received from 16N/112-211, 16N/102-221, (Import - Pulp Will Ganal), 15N/92-221, (Combie Subunit) and other individual diversions. Renorted area irrigated does not include that area irrigated outside the Yuba-Bear Rivers Mydro- graphic Unit by the system.**
	Description of diversion system		Gravity; concrete dam 4 feet high, 10 feet long, with 250 feet of wood flume to connec- tion with 17N/11E-36D1.	Gravity; constant radius concrete arch dam 80 feet high, 324 feet long, with 4.1 miles of variable section tunnel and 0.7 mile of penstock.	€		Gravity; concrete dam, 12 feet high, 60 feet long, with a total length of 73.7 miles of canal, fluwe, tunnel and pipeline consisting of Upper Carpon Carl with a capecity of 50 cfs and a length of 7.1 miles from Bear River to Garyon Greek; Towle Ganal with a capacity of 60 cfs and a length of 4.0 miles from Garyon Greek; Obardan Canal (lower) with a verying capacity of 75,5-12, cfs and a total length of 62,6 miles from Alla Afrensy to Roseville Regulator, including Codar Creek Ganal from Lake Alta of Norte Vista Pipeline with a length of 2,7 miles and a capacity of 30 cfs.**
Indicated date of	appro- priotion or first use		Prior 1957	1943	1893		1893
ight	Rsference	q)	1	A-5970ª	1		1
Apparent water right	Amount	Dutch, Flot Subunit (Confinued)	l	525 cfs			1
App	Typs	ot Subuni	ê	Approp.	9		ê
	Amount diverted in ocre-fast	Dutch Fi	*047	322,600	*00°+°05		16,003*
Water use in 1957	Extent and method of use		(*)	22,000 kw installed generating capacity at Dutch Flat Fowerhouse	*)		13,466 acres* Undetermined number Auburn, Colfax, Lincoln, Bocklin and Roseville 2,000 fw installed generating capacity at Alta Pwerhouse
	Purposs		Irrig. Domestic Munic. Power	Power	Irrig. Domestic Munic. Power		Irig. Doncetic Munic. Power
	Source		Pitman Ravine	Bear Miver*	Canyon Creek and augmented flow of Canyon Creek		Bear River*
ě	Diversion nams and/or owner		Pitman Ravine Flume Pacific Gas and Electric Company	(Sheet 16) Redific Gas and Electric Company	Towle Canal Pacific Gas and Electric Company	1	(Sheet 13) System (Sheet 13) Peoific Gas and Electric Company
Location	number and Plots 2 sheet number	MDB&M	16N/11E-9J1 (Shest 16)	16N/11E-17E1 (Sheet 16)	16N/11E-21E1 (Sheet 16) (Import from American River Hydro- graphic Unit		(Sheet 13)

* See remarks, ** Tornation see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions", ** Information not svailable. ** Por lattered footnotee, see last page of table.

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Locotion				Woter use in 1957		Appo	Apporent water right	ight	indicated		
number ond Plote 2 sheet number	Olversion nome ond/or owner	Source	Purpose	Extent and method of use	Amount diverted in acre-feet	Туре	Amount	Raferance	appro- priotion or first use	Description of diversion system	Remorks
MDB&M					Dufch Fi	ot Subuni	Dutch Flat Subunit (Cantinued)	ed)			4
17N/12E-33B1 (Sheet 14) (Import from American River Hydrographic Unit	Lake Valley Canal Pacific Gas and Electric Company	North Fork of North Fork American River*	Power	(*)	7,271*	1	1	1	1 1	ı	Stream flow of river augmented by Lake Valley Reservoir and Kelley Lake. Amount diverted used to supplement ITN/12E-2011 (Drum Canal).
					<u> </u>	French Carrol Subunit	Subunit			1	The same of
16N/7E-3E1 (Sheet 15)	C. R. and G. W. Maish	Kentucky Ravine	Irrig.	61 acree by sprinkler and flooding*	Not meas.	Riparian	1	1	About 1880	Gravity; small earth and rock dam with 0.2 mile of earth ditch.	Former owners: Nebone, C. N. White, E. K. Harrison. Area irrigated received supplimental supply from 16N/T2-4Q1 and water purchased from Newada Irrigation District.
16N/7E-401 (Sheet 15)	C. R. and G. W. Maish	Rapp Creek	Irrig.	(*)	Not meas. Approp.	Approp.	0.38 cfe	A-15843ª	About 1880	Gravity; small earth and rock dam with 0.4 mile of earth ditch.	Former owners: Nebons, C. N. White, E. K. Harrison. Amount diverted used to supplement 16N/7E-3EL.
16N/8E-4E1 (Sheet 16)	Joy Hilliard	Rush Creek	Irrig. Domestic	Irrig. 8 acres by flooding Domestic (c)	*448	Riparian	1	Deed	About 1850	Gravity; small rock dam with 0.4 mile of earth ditch.	Pormer owner: Larsen, Reported amount diverted is for June - December, 1958 only.
17N/7E-26F1 (Sheat 12)	Louis P. Dudley	French Corral Creek	Irrig. Stock.	48 acres by flooding 75 head	Not meas. Riparian	Riparian	ı	Deed	About 1850	Gravity; earth and rock dam 4 feet high, 10 feet long, with 0.6 mile of earth ditch.	Former owners: George Callahan, Munia, Reese.
17N/7E-33RL (Sheet 12)	C. R. and G. W. Maish	Kentucky Ravine	Irrig. Stock.	5 acrss by flooding* 80 head	346	(a)	ţ	1	About 1880	Gravity; small rock dam with 60 feet of 6-inch metal flume and 0.4 mile of earth ditch.	Former owners: Nebone, C. N. White, E. K. Harrison. Area irrigated received supplemental water purchased from Nevada Errigation District. Reported amount diverted is for 5/Ak/57 - 9/15/57 only.
17N/7E-33R2 (Sheet 12)	C. R. and G. W. Maish	Kentucky Ravine	Irrig. Stock.	ll ecres by flooding* 80 head	Not meas.	(a)	1	1	About 1880	Gravity; amall rock dam with 0.6 mile of earth ditch.	Former owners: Nobone, C. M. White, E. K. Harrison. Area inrigated received aupplemental water purchased from Nevada Irrigation District.
17N/8E-1N1 (Sheet 12)	Vincent Bellet	Shady Creek	Irrig. Stock.	33 acree by flooding 90 head	7,4	Approp.	}	1	About 1850	Gravity; concrete dam 8 feet high, 50 feet long, with 1.1 miles of wood flume, tile pipeline, and earth ditch.	Former owners: Hughes, Phelm.
17N/8E-1P1 (Sheet 12)	Vincent Bellet	Shady Greek	Irrig.	50 acres by flooding*	Not meas.	ê	1	+	About 1850	Gravity; rock dam with 2.6 milee of earth ditch.	Former owners: Hughes, Phelsn. Area irrigated received aupplemental supply from 17N/8E-231.
			,								
A Gan manualta	alom				-						

* See remarks.

* See remarks.

** See remarks.

** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Mater Diversions".

** Information not available.

For lattered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Remorks		Former owners: Monroe, Wateon, Thorpe.	Former owner: Thorpe.		Former owners: Cox, Phelen. Amount diverted used to supplement 17N/8E-1PL.	Area irrigated received supplemental supply from 17N/85-15D1.		Pormer owners: Milton Mining Company, Bureke Lake and Vibe Canal Company, Consolidated River Minee Company. System and water rights leased by French Corral County Water District, Reported amount diverted is for July December 1957 only, Amount shown in parentheses is total for 1958. Portion of amount diverted used to supplement TN/MES-QL and LIN/MES-LGB1. DIreported area irrigated 3 acres are located in Pike Subunit.		Area irrigated received supplemental supply from 17N/8E-15DL.	Former owner: Jamee H, Reader,
Description of diversion system		Gravity; short earth ditches direct from springs.	Gravity; earth dam 10 feet high, 60 feet long, with 0.2 mile of earth ditch.	Gravity; earth dam 6 feet high, 60 feet long, with short earth ditch.	Grevity and storage; earth dam 65 feet high, 300 feet long, with short earth ditch connected to ditch from 17N/85-1P.	Cravity and storage; earth dam 12 feet high, 60 feet long, with 48 feet of 6-inch concrete pipe to earth ditch.	Gravity; gravel wing dam with 0.2 mile of earth ditch and 24,5 feet of wood flume.	Gravity; 8 miles of earth ditch and a 250-acre-foot reservoir formed by a concrete dam that feet high, 555 feet long.	Gravity; small gravel dam with 0.2 mile of 2-inch pipe and earth ditch.	Gravity and storage; earth dam 16 feet high, 70 feet long, with earth ditch.	Gravity; gravel dam with 1.0 mile of earth ditch end wood flume.
Indicated date of appra-printion or first use		1954	1954	1956	About 1950	About 1955	1953	1851	1951	About 1955	About 1856
lght Reference	(pa	1	1	1	1	A-16780ª	1	1	1	A-16780a	1
Apparent water right	rench Corral Subunit (Continued)	1	1	!	1	14 af	1	ı	1	22 af	ţ
Арре	rral Subur	Riparian	Riparian	Riparian	(a)	Approp.	Riparian	3	Riparian	Approp.	Approp.
Amount diverted in	rench Co.	Not meas.	Not meas.	Not mess.	Not meas.	577	Not meas.	(628)*	Not meas.	Not meas.	95
Water use in 1957 Extent and method of use		Springe tributary to Irrig. 15 acres by flooding Shady Greek Shady Greek 33 head	ll acres by flooding	9 acres by flooding	(*)	5 acres by sprinkler and flooding* 35 head Swimming in reservoir	Placer (c)	125 scree by sprinkler and flooding* (c) head	14 ecres by flooding 45 head	12 acres by sprinkler and flooding* 35 head	7 acres by flooding
Purpose		Irrig. Domestic Stock.	to Irrig.	Irrig.	Irrig.	Irrig. Stock. Recr.	Mining Domestic	Irrig. Stock. Domestic	Irrig. Stock	Irrig. Stock.	Irrig.
Source		Springs tributary to Shady Greek	Springs tributary to Shady Creek	Springs tributary to Irrig.	Tributary to Shady Greek	Tributary to Shady Creek	Shady Greek	Shady Greek	Shady Creek	Tributary to Shady Greek	Shady Creek
Diversion name and/or owner		James M. Selvester	James M. Selvester	James M. Selvester	Edward Bellet	Sert L. Burda	L. M. White	Pine Grove Ditch* Menona Mining Co.	Calvin Milhoue	Sert L. Burda	Frank S. Reader
Locotion number and Plate 2 sheet number	MDB&M	17N/8E-2B1 (Sheet 12)	17N/8E-2C1 (Sheet 12)	17N/8E-2F1 (Sheet 12)	17N/8E_2J1 (Sheet 12)	17N/8E-901 (Sheet 12)	17N/8E-11F1 (Sheet 12)	(Sheet 12)	17N/8E-15D2 (Sheet 12)	17/8E-1681 (Sheet 12)	17N/8F-20GI (Sheet 12)

* See remarks.

* How additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

* For information not available.

For lettered footnotes, see last page of table.

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Lecation				Water use in 1957		Арре	Apparent water right	ight	Indicated date of		
number and Plate 2 shset number	Diversion nome and/or owner	Saurce	Purpase	Extent and method of use	Amount diverted in core-feet	Туре	Ameunt	Reference	appre- priation or first use	Dascription of diversion system	Remorks
M S E C W				<u>u</u> .	rench Cor	rai Subun	French Corral Subunit (Continued)	ued)			
17N/8E-20N1 (Sheet 12)	Francis J. Reader	Shady Creek	Irrig.	14 acres by sprinkler	Not meas.	Approp.	1	1	1856	Pump; 3-hp electric motor with 0.2 mile of 2.5-inch pipe.	Former owners: James H. Reader, Frank S. Reader.
17N/8E-25Q1 (Sheet 12)	Lake Vera Piedmont Campfire Girls	Rook Greek	Recr.	Swimming, boating, and fishing in recervoir	159	Approp.*	2.0 cfs. 70 af	A-57198 A-44948	Prior 1905*	Storage; concrete eleb and buttrese dam 15 feet high, 125 feet long,	Former owners: Poolfic Gae and Electric Company, Ray Harris. Mater right in name of Fidelity Title Incurance Co. Present dam built about 1926 approximately 300 feet upstream from crighnal dam.
17N/8E-27H1 (Sheet 12)	Excelsion Ditch* Nevada Irrigation District	South Yube River	Irrig. Stock. Domestic	(6)	14,198*	Approp.	125 ofs	A-1616a (*)	1859	Gravity; concrete dam 15 feet high, 120 feet long, with 19.4 miles of earth ditch and wood fiume.	Pormer owner: Excelsion Weter and Mining Company, Reported amount diverted is for April 1957 - March 1958, Pormerly known as South Kuba Ditch. Rediverts water stored under Application No. 8177 in addition to diversion under Applica- tion No. 1616,**
17N/9E-27K1 (Sheet 13)	D. M. Loney	North Rock Creek	Irrig. Stock.	12 acres by sprinkler 15 head	118*	Approp.	IW 1	Book 1, Pg. 1886 of Water Rights	1876	Gravity; earth, log and rook dam with 0.4 mile of earth ditch.	Former owners: Victor Souvie, Ethel Preston. Reported amount diverted is for 1958.
17N/9E-28N1 (Sheet 13)	William L. Davies	Rock Creek	Irrig. Stock. Domestic	25 acres by flooding 30 head (c)	*66	Approp.	1	1	About 1850	Gravity; rock dam with 1.7 miles of earth ditch.	Former owners: Jacob Arbogast, Scott, Davis. Reported amount diverted is for 5/15/58 - 12/31/58.
17N/9E-34KI (Shset 13)	Harry M. Davis	Rock Creek	Irrig. Domestic	9 acres by sprinkler and flooding (c)	র	(Q)	1 8	1	About 1850	Gravity; log dam with 2.4 miles of earth ditch.	Pormer owners: South Tuba Water Company, Pacific Gas and Electric Company, Souvee, City of Nevada City. Reported amount diverted is for May - December 1958.
17N/9E-35E1 (Sheet 13)	Arbogast Brothers	Rock Creek	Irrig.	9 acres by flooding	100*	Approp.	1	Deed	Prior 1900	Gravity; earth dem with 1.1 miles of earth ditch.	Former owners: Cooper, Phoific Gas and Electric Company, Reported amount diverted is for 1955.
					French	Dry Cree	French Dry Creek Subunit				
16N/5E-10B1 (Sheet 15)	C. C. Prench Sam I. Turnell	Little Dry Creek	Irrig. Stock.	10 acres by flooding 20 heed	Not mees.	Approp.	.45 cfs 19.5 af	A-121548	1947	Gravity and storage; earth dam 10 feet high, 225 feet long, with two earth ditches having a total length of 0.4 mile.	Pormer owner: Zbinden
16N/5E-12C1 (Sheet 15)	Neal W. Duckels	Tributary to Dry Greek	Irrig.	10 acree by flooding	*06	(q)	1	1	1956	Gravity; earth dam & feet high, 120 feet long, with 0.4 mile of earth ditch.	Pormer ewner: W. L. Dolan. Reported amount diverted is for 5/15/57 - 9/25/57 only.
# See rema	* See remarks.										

* over chairfand information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversione". ** Information not available.

For lettered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

	Remorks		Former owner: W. L. Dolan.	Former owners: Ramm, Sidney V. Smith. Apprinction Mon-1951 in name of John W. Lingd, T. W. and Rarold J. Sperbeck, and Ann Benton. Reported amount diverted is for April-December only.	Portion of amount diverted used to supplement 16W/6E-14Q1. Water rights in name of Pacific Gas and Electric Company.		Former owner: Blenman, Amount diverted used to supplement 16N/7E-5H1.	Former owner: Blennan, Area irrigated received supplemental supply from leW/7E-4El and purchased water from Nevada Irrigation District.		Former owner: Arthur Locken. Area irrigated received supplemental water purchased from Browns Walley Irrigation District.	Former owner: MacDonald. Water exported outside the Yuba-Ber Rivers Hydrograph: Unit for use in the Frather River and Sacramento Valley Floor Riversed as total for period 7/1/57-18/39/2000 of amount diverted is total for period 7/1/57-18/39/2000 of amount diverted November 1 - April 1 from Temessee Greek to 1/R/7E-16fl Browns Valley Ditch (Figs Shundt) on an exchange basis. Amount diverted received supplemental supply from 18W/6E-34Q1.
	Osscription of diversion system		Gravity and storage; earth dam 12 feet high, 400 feet long, with enort earth ditch.	Gravity; rock and concrete dam 20 feet high, 150 feet long, with 5.5 miles of earth ditch.	Storage; concrete dam 260 feet high, 1,142 feet long, with 70,000-acre-foot reservoir.	Gravity; 1,503 feet of 108- inch concrete-lined tunnel from Englebricht Reservoir.	Gravity and storage; earthdam 12 feet high, 365 feet long, with 0.3 mile of earth ditch	Gravity; earth dam 2 feet high, 6 feet long, with 0.2 mile of earth ditch.	Gravity; earth dam 2 feet high, 4 feet long, with 0.5 mile of earth ditch.	Pump and storage; earth dam 15 feet high, 300 feet long, with 5-hp motor and 300 feet of 6-inch pipe.	Gravity; concrete and rock dam 15 feet high, 30 feet long, with 4.5 miles of earth theoundary.
Indicated date of	appra- priotion or first use		1948	Prior 1914	1941	1942	1948	1952	About 1880	About 1,50	1909
ght	Reference	(penu	ŀ	A-143718 A-149518	A-8794ª A-10282ª	A-8794ª	A-12700ª	A-14991a	1	A-101818 A-121188 A-149468	A-11596a A-11596a
Apporent water right	Amount	French Dry Greek Subunit (Continued)	1	6.0 cfs	67,000 af 700 cfs 5,335 af	700 cfs 67,000 af	25 af	2,2 af	1	0.25 cfs 15 af 11 af	25 of a second s
Арра	Туре	Creek Su	ê	Approp.	Approp.*	Approp. 6	Approp.	Approp.	Riparian	Approp. Approp. Approp.	Approb.
	Amount diverted in ocre-fest	ench Dry	42	3,503*	£	000,994	Not.meas*	Not meas.	96	202	2,450*
Water use in 1957	Extent and method of use		l acre by flooding 50 head Boating and fishing in reservoir	177 scres by flooding 1,100 head	· (*)	9,350 kw installed generating capacity	(*)	11 acres by flooding and sprinkler* 4,0 head (c)	16 acres by flooding 10 head	14 acres by flooding*	(*)
	Purposs		Irrig. Stock. Recr.	Irrig. Stock.	Debris control Power	Power	Irrig. Stock.	Irrig. Stock. Domestic	Irrig. Stock.	Irrig. Stock.	Export.
	Source		Tributary to Dry Greek	Dry Creek	Yuba River	Englsbright Reservoir	Tributary to Yuba River	Tributary to Yuba River	Little Dry Creek	Little Dry Creek	Dry Creek
	Diversion nome and/or owner		Neal W. Duckele	Smith Bar Ditch Henry P. Smith	Englebright Reservoir California Debris Commission	Narrows Powerhouse Pacific Gas and Electric Company		Howard C. and L. E. Richardson	Burris, Burris, Burris and Hoxworth	James M. Stevens	Frank Carmicheel
Location	number and Plate 2 sheet number	MDB&M	16N/5E-12CL N (Sheet 15)	16N/6E-711 S	16N/6E-14P1 Sheet 15)	16N/6E-14C1 (Sheet 15)	16N/7E-4E1 15)	16N/7E-5H1 (Sheet 15)	17N/5E-27R1 (Shest 12)	17N/5E-34K1 (Sheet 12)	177/56-4H1 (Sheet 12)

* See remarks.
** Pos remarks.
** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
** For Interestion not swallsble.
For lettered footnotes, see last page of table.

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Lecetion				Water use in 1957		App	Apperent water right	right	indicated date of		
ond Plate 2 sheet number	Diversion name end/or owner	Source	Purpose	Extent and method of use	Amount diverted in ocre-feet	Туре	Amount	Rafarence	appra- prietien or first use	Description of diversion system	Remorke
				1							
MDB&M				الما	ench Dry	Creek Su	French Dry Creek Subunit (Continued)	finued)			
17N/6E-11E1* (Sheet 12)	(Sheet 12)	Oragon Nouse Creek	Irrig. Stock.	27 acres by sprinkler and furrow # 10 head	Not meas.	Atparian	1	1	1946	Pump; tractor driven	Former owner; Knights. Portable pump Location wardes within 500 feet of location indicated. Area irrigated supplemented by ground water.
18N/6E-24M1 (Sheat 9)	Arthur J. Faquette	Dry Creek	Mining Stock. (*)	Placer mining 15 head (*)	Not meas. Approp.	Approp.	1	1	1865	Gravity; concrete dam 2 feet high, 15 feet long, with two earth ditches having a total length of 1.1 miles.	Pormer owners: Evens, Rose. Irrigated 16 acres by flooding until 1957.
18N/6E-34,01 (Sheet 9)	Los Verjeles Dam Yuba Investment Company	Dry Greek	*	(*)	®	Approp.	8,600 af	A-2406ª	1915	Storage; concrete dam 56 feet high, 310 feet long, with 1,330-acre-foot reservoir releasing down 1 mile of natural channel to 17N/6E-4H1.	Former owner: MacDonald, Water right in name of Los Verjelee Land and Water Co. Amount diverted and details of use reported under 17N/6E-4HL.
18N/6E-34Q2 (Sheet 9)	Clint Givens	Dry Greek	Irrig. Stock. Domestic	20 scres by flooding and eprinkler 40 head c (c)	69	Approp.	50 MG	1	1908	Grauty; earth and rook dam with 0.2 mile of arrth ditch to 3-hp electric-powered pump with 4,00 feet of 4-inch pipe.	Former owneres Madruga, Nash.
18N/6E-36El (Shaet 9)	J. W. Treeler	Tributary to Dry Greek	Irrig. Stock.	6 acree by furrow and Not meas. 25 head	Not meas.	ê	1	!	1949	Gravity and storage; earth dam 24 feet high, 300 feet long, with short earth ditch.	Former owner: Clarence Brown.
19N/6E-25D1 (Sheet 6)	Leslie W. Sille	New York Creek	Irrig.	4 acree by sprinkler	র	Riparian	ŀ	;	About 1860	Pump; 5-hp electric motor with 400 feet of 4-inch pipe.	Former ownere: Lockewood, Miller.
19N/6E-35M1 (Sheet 6)	Herry Howard	.Dry Greek	Irrig. Stock.	17 acres by sprinkler and flooding* 94 head	Not meas.	Riparian	1	Patent	1881	Gravity; rock and earth dam with two 0.4 mile earth ditches.	Former owners: John McGrank, Dacon, Weber. Water applied to reported area irrigated for four days only until distribution pump ceased to function for remainder of year.
19N/7E-17Pi (Sheet 6)	Narry Mulock	Tributary to Golden Gate Ravine	Munic.	350 persons*	*807	Approp.	7,200 gpd	A-4764ª	1925	Gravity; 1.6 miles of 1- and 2-inch pipe.	Pormer owners; William N. Joy, Howard Burgan, Supplies community of Challenge, Reported amount diverted include undetermined amount from grandwish.
19N/7E-18E1 (Sheet 6)	Martin Costa	Costa Creek	Irrig.*	(*)	None	Adpertan	1	!	About 1850	Gravity; earth dam with 0.3 mile of earth ditch.	Irrigated 33 acres by flooding until 1987.
	į				Good	dyears Bo	Goodyears Bar Subunit				
19N/9E-6A1 (Sheet 7)	Cal-Ida Lymber Co.	Cherokee Greek	Indust. Fire prot.	Lumber mill	928	Approp.	2,0 cfs	A-10692ª	1943	Gravity; concrete dum 2 feet high, 15 feet long, with 2.0 milee of earth ditch and wood flume.	

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* See remarks.
** See remarks.
** For additional information see Appendix D, "Detailed Decoriptions of Certain Surface Mater Diversions".
*- Information not evallable.
For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Location				Woter use in 1957		App	Apporant water right	right	Indicated date of		
number and Plate 2 sheet number	Diversion nome ond/or owner	Source	Purpose	Extent and method of use	Amount diverted in ocre-feet	Type	Amount	Rafarenca	oppro- priation or first use	Osscription of diversion system	Remorks
MDB&M					Goodyears	Bar Sub	Goodyears Bar Subunit (Continued)	nued)			
19N/9E-6P1 (Sheet 7)	Cal-Ida Lumber Co.	Cherokee Creek	Indust. Fire prot.	*	Not meas. Approp.	Approp.	2.0 cfs	A-10692ª	1943	<pre>Pump; 15-hp motor with 0.3 mile of 4-inch pipe to connection with ditch from 19N/9E-6Al.</pre>	Auxiliary pump used to supplement 19N/9E-6A1.
19N/9E-811 (Sheet 7)	W. R. Ellsworth	Fiddle Creek	Domestic Wining Recr.	Domestic 40 persons* Mining Placer mine Recr. Fishing	797	Approp.	3.0 cfs	A-10856a.	About 1860	Gravity; 0.6 mile of earth ditch and flume.	Former owners: Hobby, Pootes, Supplies domestic use in Cal-Ida Lumber Company camp,
19N/9E-20N1 (Sheet 7)	Joe G. and Blanche Brown	Tributary to Indian Creek	Mining	(*)	Not meas* Approp.	Approp.	5.0 cfs	A-14918 ⁸	About 1868	Gravity; rock dam with 40 feet of wood flume to connection with ditch from 19N/9E-21L.	Former owner; Joubert Family, Amount diverted used to supplement 19N/9E-2111.
19N/9E-21L1 (Sheet 7)	Joe G. and Blanche Brown	Indian Creek	Mining	Placer mine*	Not meas.	Approp.	3.0 cfs	A-14918ª	About 1868	Gravity; 5.0 miles of earth ditch and wood flumes.	Pormer owner: Joubert Family, Received supplemental supply from 19N/9E-20N1 and 19N/9E-23AL.
19N/9E-29Al (Sheet 7)	Joe G. and Blanche Brown	Grant Ravine	Mining	*	Not meas. Approp.	Approp.	7.0 cfs	A-14,918ª	About 1868	Gravity; rock and earth dam with 0.1 mile of earth ditch to connection with ditch from 19N/9E-2111.	Former owner; Jouhert Family, Amount diverted used to supplement 19N/9E-ZILL,
19N/10E-8C1 (Sheet 7)	Andrew Bachels	Moodruff Creek	Munic.	11 connections*	*705	Approp.	1	1	Prior 1874	Gravity, rock and gravel dam with 0.5 mile of earth ditch.	Pormer owners: Harris, Schelber, Kennedy. Supplies community of Goodyears Bar. Durfng summer season number of connections increases to about 50. Reported amount diverted is for July - November, only.
19N/10E-8F1 (Sheet 7)	M. P. Fischer	Woodruff Creek	Domestic	(e)	197*	Approp.	0.055 cfs	A-9617a	1939	Grevity; log and board dam 4 feet high, 25 feet long with 0.4 mile of earth ditch.	Reported amount diverted is for May November only.
19N/10E-18J1 (Sheet 7)	19N/10E-18J1 Best Mines Company, (Sheet 7) Inc.	Water Box Ravine	Indust.	Hard rock mine and crushing mill	210*	Approp.	3.0 cfs	A-14658ª	About 1860	Gravity; 150 feet of metal flume to 20,000-gallon tank with 400 feet of 6-inch pipe to mine and mill.	Former owner: Alpha Hardware Company. Reported amount diverted is for 1958.
19N/10E-8Al (Sheet 7)	Mrs. M. A. Wright	Rock Creek	Power Domestic	Power 4 kilowatts Domestic (c)	Not meas.	(e)	1	1	About 1880	Gravity; log dam 4 feet high, 22 feet long, with 0.5 mile of earth ditch and flume.	Pormer owner: Kannedy Brothers.
20N/10E-14D1 (Sheet 4)	(Sheet 4) Utility District (Sheet 4)	Downie River	Munic.	450 persons*	217*	Approp.	1	1	Prior 1914	Grevity; rock and earth dam with 4.0 miles of earth ditch to tank and reservoir.	Rormer owners: Gold Bluff Mines, Rosenfeld, Best Mines Company, Inc. Supplies community of Downeville, Reported amount diverted includes all water diverted by 20%/10E-26%1.
20N/10E-20B1 Ed Chase (Sheet 4)	Ed Chase	Goodyears Greek	Mining (*) Domestic (c)	€0	Not meas.	Riparian	1	Patent	About 1855	Gravity; rock and earth dam with 0.7 mile of earth ditch and wood flume.	Former owners: Patneaud, Sheehan, Brown, Higgins. Supplied a No. 4 hydraulic glant until 1955.

* See remarks.
** So additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
-- Information not exailable.
For lattered footnotes, see last page of table.

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Location	i			Water use in 1957		App	Apporent water right	right	Indicated date of		
property and black State	Diversion nome and/or owner	Source	Purposs	Extent and method of use	Ameunt diverted in ocra-fast	Type	Amount	Rafarence	appro- priotion ar first use	Description of diversion system	Remorks
MOBEM					Goodyeors		Bor Subunit (Continued)	uned)			
20W/10E-26K1 (Sheet 4)	20W/10E-26K1 Downleville Public (Sheet 4) Utility District	Pauley Creek	Munic.	(*)	*	Approp.	1,1 cfs	A-98278	About 1935	Pump; 80-hp gasoline-powered engine with 0.2 mile of chich pipe to connection with ditch from 20N/10E-14.01.	Amount diverted and details of use reported under $20N/10E-14DL_{\bullet}$
20N/10E-3211 (Shest 4)	(Sheat 4)	Goodyears Creek	Irrig. 5 acres Domestic (c) Power	5 acres by flooding (c)	287*	Approp.	1,400 gpd	A-11994ª	About 1870	Gravity; log dam 3 feet high, 48 feet long, with 1.0 mile of earth ditch,	Former owners: Bachel Family. Reported amount diverted is for August - November only.
20N/10E-33A1 Axel Nesholm (Sheet 4)	Axel Nesholm	Rosassco Ravine	Irrig. Domestic	Irrig. 4 acres by sprinkler Domestic (c)	Not meas.	Approp.	1	Book C pg. 231h	1877	Gravity; 0.5 mile of 2-inch pipe.	Former owners; John Garlsen, C. M. Caya, E. L. Case, H. W. Butler.
21N/10E-36R1 (Sheet 2)	(Sheet 2) Mary Ann McGalister, et el.	Daves Ravine	Mining	(*)	Not meas.	Approp.	1	1	Prior 1900	Gravity; rock dam with 1.2 miles of earth ditch to connection with ditch from 21N/11E-18RL,	Former owners: Hearst, Hagen, B. D. Elliott. Amount diverted used to supplement 21N/11E-18RL.
21N/11E-18R1 (Sheet 3)	P. W. Elliott Mary Ann McCalister, et al.	Red Oak Canyon	Mining Domestic	Placer mine*	Not meas.	Approp.	2.0 cfs	A-9750ª	About 1860	Gravity; rock and earth dam with 6.0 miles of earth ditch and flume.	Former owners: Spaulding, B. D. Elliott. Mine receives supplemental supply from 21N/10E-36Rl and 21N/11E-31Gl.
21N/11E-31C1 (Sheet 3)	(Sheet 3) Mary Ann McCalister, et al.	Spring tributary to Red Oak Canyon	Mining	(*)	Not meas. Approp.	Approp.	1.0 cfs	A-9750ª	About 1860	Gravity; intercepted by ditch from 21N/11E-18F1.	Former owners: Spaulding, B. O. Elliott. Amount diverted used to supplement 21N/11E-18fl.
					Green	horn Cre	Greenhorn Creek Subunit				
15N/9E-10C1 (Sheet 18)	A. P. Gelhaus	Butterfly Greek	Irrig. Stock. Fish culture	17 scres by flooding and sprinkler* 100 heed Trout farm	Not meas.	Riparian	1	1	1860	Gravity; 0.3 miles of 4- and 6-inch pipe.	Former owerer; Joseph Shebley, Oliver Shebley, Uses indicated received supplemental supply from LSM/98-10G1.
15N/9E-10G1 (Sheet 18)	A. F. Gelhaus	Butterfly Greek	Irrig. Stock. Fish culture	*)	Not mees.	Riparian	1	1	1860	Pump; 400 feet of 4-inch pipe.	Former owners: Joseph Shebley, Oliver Shebley, Amount diverted used to supplement 15N/9E-1001.
16N/9E-29ML (Sheet 16)	Elmo C. Cox	Tributary to Little Greenhorn Greek	Irrig.	8 acres by sprinkler	t ⁵ *	Riperian	1	Deed	About 1850	Grevity; rock dam with 0.2 mils of 4-inch pipe and earth ditch.	Former owner: Stewart, Reported amount diverted is for 1958.
16N/9E-32D1 (Sheet 16)	Andrew Veland	Little Greenhorn Greek	Irrig. Stock.	10 seres by flooding	215*	Riparian	ł	Deed	1890	Gravity; rock dam 3 feet high, 20 feet long, with 0.3 miles of earth ditch.	Reported amou.ic diverted is for 1958
16N/9E-32M 1 (Sheet 16)	Miss Lucy Welles	Little Greenhorn Greek	Irrig. Stock.	11 scres by flooding	373	Riparian	ì	Deed	About 1880	Gravity; 0.5 mile of earth ditch.	Former owners: King, Penrose,
A See washing											

* See venaria. ** See venaria. Information ees Appendix D, "Detailed Descriptions of Certain Surface Water Diversions". ** Information not evallable. ** Information not evallable. For lattered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Location				Woter use in 1957		Арро	Apparent water right	ight	Indicated		
number ond Plote 2 sheet number	Diversion name and/or owner	Source	Purpose	Extent and method of use	Amount diverted in ocre-fest	Type	Amount	Reference	oppro- priation or first use	Description of diversion system	Remorks
MDB&M		,				o Porte Si	Subunit				
20N/9E-18F1 (Sheet 4)	Forest Sheehan	Little Rock Creek	Irrig.	17 acres by sprinkler* Not meas.		Riparian	1	Patent	About 1870	Gravity; wood-boxed spring with 0.4 mile of 1.5-inch and 6-inch pipe.	Former owners: Kingdon, Philander, Bean. Area irrigated received supplemental supply from 20M/95-18HL.
20N/9E-18ML (Sheet 4)	Forest Sheehan	Philander Greek	Irrig. Domestic	*	Not meas.	Riparian	1	Patent	About 1870	Gravity; wood-boxed spring with about 0.4 mile of 2-and 4-inch pipe.	Former owners: Kingdon, Philander, Bean, Amount diverted used to supplement 20N/9E-18F1.
21N/9E-8F1 (Sheet 2)	La Porte Water District	Spring tributary to Rabbit Greek	Munic.	50 persons*	Not mess.	a	1	1	About 1900	franthy; 0.9 mile of 2- and 3- inch pipe.	Former owners; Barnes, Pike, Supplies community of La Porte, During summer season number of persons intreases to about 250, Diversion receives supplemental supply from 21%/96-9Ft,
21N/9E-9F1 (Sheet 2)	La Porte Water District	Spring tributary to East Branch Rabbit Creek	Munic.	*	Not meas.	(a)	1	1	About 1850	Gravity; 0.5 mile of 2-inch pipe.	Former owners: Barnes, Pike, Amount diverted used to supplement ZLN/9E-8Pl.
21N/9E-13R1 (Sheet 2)	Andrew J. Modglin W. H. Pike	Deacon Long Ravine	Mining	Placer mine	Not meas.	Approp.*	12.5 efs	A-10103ª	About 1850	Gravity; rock and earth dam with 0.7 mile of earth ditch and flume.	Approprietive water right under name of Pioneer Project Partnership.
21N/10E-4B1 (Sheet 2)	Floyd Johnson	Potosi Creek	Mining*	*	None	Approp.	1	1	1953	Gravity; earth dam with 0.5 mile of 12-inch pipe.	Former owner: M. Murphy. Supplied placer mine until 1955.
21N/10E-7K1 (Sheet 2)	Andrew J. Modglin W, H, Pike	Stahls Ravine	Mining	Plecer mine	Not meas.	Approp.	4.0 ofs	A-10104ª	About 1860	Gravity; wood diversion box with 2.6 mil s of earth ditch and flume.	
22N/10E-28B1 (Sheet 1)	22N/10E-2881 McKenna Mining Co. (Sheet 1)	Slate Creek	Mining	Placer mine	Not meas.	(a)	1	1	About 1850	Gravity; about 7.5 miles of earth dirch and flume.	I
				Orcha	- d ond Pie	Basant Gr	Orchard and Pleasant Grave Creeks	s Subunit			
12N/6E-14R1 (Sheet 22)	Hughss Reservoir Floyd Bonnifield	Tributary to Auburn Ravine	Stock. Recr.	150 head Fishing in reservoir	Not meas.	(a)	1	1	About 1910	Storage; earth dam 15 feet high, 400 feet long.	Former owners: Hughes, Lowe.
12N/TE-19F1 (Sheet 22)	Tom E. Allen	Tributary to Orchard Irrig. Greek	Irrig. Stock.	ll acres by flooding 50 head	Not meas. Approp.		0.20 cfs 3.25 af	A-13849 ^a	About 1949	Gravity; earth dam 8 feet high, 200 feet long, with 0.3 mile of earth ditch.	
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* See remarks. ** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions". *- Information not svallable. For lettered footnotes, see last page of table.

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Location		J		Woter use in 1957		App	Apparent water right	right	Indicated date of		
number and Plate 2 sheet number	Diversion name and/or owner	Source	Purpose	Extent and method of use	Amount diverted in ocre-feet	Туре	Amount	Reference	appra- prietien or first use	Description of diversion system	Remorks
M D B & M						Pike Subunit	bunit				
17N/7E-5J1 (Sheet 12)	Lake Francis Pacific Gas and Electric Company	Dobbins Creek	Irrig. Domestio Stock.	· •	Not meae*	Approp.	1	1	1901	Storage; hydraulio fill 77 feet high, 1,300 feet long, and 1,905-arra-foot reservoir releasing to 1,3 milee of stream channel and 1,5 milee of earth ditch to 17N/TE-16H1.	Former owners: Tuba Electric Power Co., Bay Counties Power Co. Arount diverted used to supply TRW/FE-Lbff (Escoras Talley Ditch) in conjunction with, 18N/FE-25F1 (Bullards Bar Subunit),
17N/Tc-16H1 (Sheet 12)	Browns Valley Ditch Browns Valley Irrigation District	North Yuba River Turnig.	Irrig. Domestic Stock	€	20,036*	Approp.	1	1	Prior 1900	Oravity; 62.5 miles of earth dish from distribution stucture near head of Colgate Powerhouse Penstock.	Amount diverted is supplied from ITM/FS-251 (Bullarde Bar Subunit) in liter of water diverted through a separate diversion system from North Fork Tuba River. Diversion receives supplemental supply from receives supplemental supply from the FIV/GE-LHI (Facher River Hydrographic Unit, November 1 - April 1 in exchange for water delivered outside of Drowns Valley Irrigation District in the Sacramento Valley Floor Hydrographic Unit.**
17N/8E-2ML (Sheet 12)	Roy D. and Geraldine Childers, et al	Springe tributary to Clear Greek	Irrig. Stock	ll acres by flooding	Not meas.	Riparlan	;	;	About 1885	Gravity; developed epring with ehort earth ditch.	
17N/8E-341 (Sheet 12)	Roy D. and Geraldins Childere, et al	Springs tributary to Clear Creek	Irrig. Stock	13 acree by flooding	Not meas.	Approp.	6 af	A-18079 ^a	1956	Gravity and storage; earth dam with 0.2 mile of earth ditch.	
17N/8E-LN1 (Sheet 12)	Big French Reservoir Lorin N. Trubschenck	Springs tributary Irrig. to Sweetland Greek Stock.		35 acree by flooding 25 head	Not mese.	Approp.	35 at	A-16823*	1850	Oravity and storage; earth dam with 0.6 mile of earth ditch.	Former owner: Bureka Mining Company
17N/8E-4R1 (Sheet 12)	E. L. DOW	Tributary to Clear Creek	Irrig.	2 acres by sprinkler	Not meas.	@	t	1	About 1900	Oravity and storage; earth dam 20 feet high, 250 feet long, with 0.2 mile of earth ditch.	
17N/8E-6R1 (Sheet 12)	Morris Reservoir M. Kehn	Tributary to North Yuba River	Irrig. Stock.	5 acres by sprinkler 65 head	*	Approp.	9.5 af	A-72174	About 1860	Oravity and etorage; earth dam i lo feet high, 500 feet long, with 0.3 mile of pipe.	Former ownere: Morris, T. C. and O. V. Rhoddes. Appropriative water right under name of Thaddsus C. and O. V. Rhoddes. Reported amount diver- ted is for 1956.
18N/7E-33ML (Shest 9)	E. A. Ingersoll	Spring tributary to Dobbins Creek	Munie.	150 persons*	Not meas.	(2)	;	:	About 1870	Gravity; developed spring with 0.2 mile of 2-inch pipe.	Former ownere: Merriam, Barnee, Menez. Supplies community of Dobbins.
18N/8E-15A1 (Sheet 9)	Cunningham Ditch M. C. Butan Mrs. W. C. Cunningham	Oregon Greek	Irrig. Stock.	26 acree by flooding 75 head	587	Approp.	1	;	1850	Gravity; concrete and timber dam with 200 feet of 30- and 36-inch pipe and 1.4 miles of earth ditch and flume.	Former owner: Peter Buta.
18N/8E-15R1 (Sheet 9)	George Buta.	Railroad Greek	Irrig. 30 and Domestic (c)	30 acree by flooding and sprinkler (c)	Qi	Riparian	1	Patent	About 1906	Gravity; earth dan with 0.1 mile of earth ditch.	Former owner: Peter Buts.

* See remarks.

** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

-- Information not available.

For lettered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

	Remarks		Former owner: Nichard Bartsch.		Former owner: Thomas Mayman,		Former owner: G. F. Cooper.	Former owners: California Land Company, Mary Carter. Meported amount diverted ls for 5/1/57 - 11/15/57 only.		Former owners: F. C. Bock, W. Harness, W. H. Woods, W. Bussell, G. H. Case, B. Guinn, G. L. Donnelly, J. A. Martin.	Location varies 600 feet of diversion point indicated. Previously irrigated 7 acres by sprinkler.	-	Former owner: Ruby Horn.	Area irrigated received supplemental supply from LIM/TE-LIC2 and purchased water from Facilic Gas and Electric Commany	Amount diverted used to supplement IIN/7E-11CL.
	Description of diversion system		Gravity; concrete dam 5 feet high, 20 feet long, with 0.4 mile of earth ditch.	Gravity; small concrete dam with 450 feet of 4- and 6- inch pipe.	Gravity; concrete dam 12 feet high, 50 feet long, with 1.0 mile of earth ditch.		<pre>Pump; 7.5-hp electric motor with short plpeline.</pre>	Gravity; wood dam with 0.2 mile of earth ditch and 10-inch pipe.	Pump; 10-hp electric motor with 0.1 mile of 6-inch pipe.	Pump; 0.2 mile of pipeline.	Pump; 10-hp gasoline engine with 0.2 mile of 3-inch pipe.	Grevity; earth and rock dam 1 foot high, 6 feet long, with 0.2 mile of earth ditch.	Pump; 300 feet of 2-inch pipe.	Pump; concrete dam 6 feet high and 5-hp electric motor with 0.2 mile of 6-inch pipe.	Pump; 7.5-hp electric motor with short pledime to connection with IIN/7E-11C1.
indicated date of	oppro- priotion or first use		1909	1946	About 1885		1934	Prior 1957	Prior 1957	1928	1957	1949	1939	1948	Prior 1957
ight	Reference		A-109808	A-10854 a	1	7772	A-8037ª	:	1	A-5806a A-9500a	A-125468	A-16326ª	A-14410 ⁸	1	1
Apparent water right	Amount	Subunit (Continued)	0.035 cfs	0.62 cfs	1	Subunit	0.44 cfs	1	ł	0.11 efs 0.23 efs	0.11 cfs	0.44 cfs	0.06 efs	i	1
Арр	Type	Subunit	Approp.	Approp.	(9)	Rocklin S	Approp.	(4)	Riperian	Approp. Approp.	Approp.	Approp.	Approp.	Riparlan	Riparian
	Amount diverted in ocre-fest	Pıke	71,12	Not mess.	2		13	*997	72	Not meas.	None	52	m	51 f	#08 #
Water use in 1957	Extent and method of use		5 scres by flooding and sprinkler	2.5 kilpwatts	24 acres by sprinkler		10 ecres by sprinkler 450 head	25 acres by flooding 38 head	13 acres by sprinklar	26 acres by flooding and sprinkler	(*)	8 acres by flooding 10 head	3 scres by furrow	18 acree by sprinkler* 60 head	*)
	Purpose		Irrig.	Power	Irrig.		Irrig. Stock.	Irrig. Stock	Irrig.	Irrig. Stock.	Irrig.*	Irrig. Stock.	Irrig.	Irrig. Stock.	Irrig. Stock.
	Source		Moonshine Crsek	Clear Creek	Tributary to Grizzly Gulch		Antelope Creek	Tributary to Secret Ravine	Secret Ravine	Antelope Greek	Antelope Greek	Tributary to Secret Ravine	Secret Ravine	Tributary to Secret Ravine	Tributary to Secret Ravine
	owner		Francis J. and Futh Bartsch	F. N. Farnsworth	Wesley B. Parker		George Mavrlae	Gordon Glenn M. A. Harris	M. A. Harris	George F. and Dixte M. Meredith	George C. Roeding, Jr.	Frank W. and Ora I. Crossley	R. E. and Ruby Horton	John E. Boyington	John E. Boyington
Location	ond Plate 2 sheet number	M D B & M	18N/85-2001 (Sheet 9)	18N/8E-33M (Sheet 9)	18N/9E-8M1 (Sheet 10)		11N/6E-25G1 (Sheet 23)	11N/7E-1C1 (Sheet 23)	11N/7E-2A1 (Sheet 23)	11N/7E-5H1 (Shset 23)	11N/7E-8G1* (Sheet 23)	11N/7E-10H1 (Sheet 23)	11N/7E-10F1 (Sheet 23)	11N/7E-11C1 (Sheet 23)	11N/7E-11C2 (Sheet 23)

See remarks.
 For a faithful information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
 Information not swallable.
 For lettered footnotes, see last page of table.

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Lacation				Water use in 1957		Apr	Apporent water right	right	Indicoted		
number and Plats 2 sheet number	Diversion nome and/ar owner	Saurce	Purpase	Extent and method	Amount diverted in ocre-feet	Туре	Amount	Raferencs	date of oppro- priotion or first use	Description of diversion system	Remorks
MOB&M			11		Rocklin	n Subuni	Subunit (Continued)	1)			
11N/7E-12C1 (Sheet 23)	June I. Maxwell Jossph and Gladys Kholas	Tributary to Sacret Ravine	Irrig.	34 acree by flooding and sprinkler	Not maus.	Approp.	0.38 cfs	A-14.244ª	1955	Gravitys 0.2 mile of earth ditch und 0.3 mile of 4-inch pipe.	Former owner: Robert M. Maxwell. Appropriative water right assigned to June 1. Maxwell, Joseph and Chadys Kohles, and J. S. and B. J. MakImoto in 1956.
11N/7E-15B1 (Sheet 23)	David M. Takagishi	Tributary to Secret Ravine	Irrig.	4 scras by sprinkler*	Not meas.	Approp.	0.075 cfs	A-18587 ⁸	1957	Pump; 1-hp electric motor with 180 feet of 3-inch pipe.	Are irrigated received supplemental water purchased from Pacific Gas and Electric Company.
11N/7E_15D1 (Sheet 23)	Cacil and Soledad A. Black	Secret Ravine	Irrig. Stock.	3 acres by sprinkler 40 head	Not mess.	Approp.	0.13 cfs	A-15549ª	1957	Pump; 5-hp electric motor with 0.1 mila of 4-inch pipe and 200 feet of 2-inch pipe.	Former owner: Leroy L. Mack.
11N/7E-16H1 (Shest 23)	F. Comrie	Secret Ravina	Irrig.	6 agres by sprinkler	Not meas.	Approp.	0.31 cfs	A-124558	Prior 1914	Pump; 5-hp electric motor with 0.2 mile of 4-inch pipe.	Forner owners: W. F. Hacker, Cora E. Hacker, Department of Veterans Affairs.
11N/7E-16H2 (Sheet 23)	Noah and Gracie Morris*	Secret Ravine	Irrig. Stock.	9 acres by sprinkler 15 head	Not meas.	Kaparian	1	1	1946	Nump; 3-hp electric motor with 0.2 mile of 4-inch pipe.	Ownership changed to Mrs. Gracia Vaughn in 1959.
11N/7E-16C1 (Sheet 23)	Charles P. Croft	Tributary to Secret Ravine	Recr. Stock.	Fishing in reservoir 26 head	Not maus.	(9)	I I	1	About 1910	Storage; earth dam	Former owner: Gold Hill Dredge Company.
11N/7E-17C1 (Shart 23)	Antonio and Frances Montero	Antelope Creek	Irrig.	ll ecres by sprinkler	35*	Approp.	0.11 cfs	A-14,328ª	1952	Pump; 5-hp electric motor with 0.2 mila of 2- and 3-inch pipe.	Nevember 1958.
11N/7E-17M1 (Sheet 23)	Ralph B. and Julia H. Aitken	Antelope Greek	Irrig. Stock.	56 acree by sprinkler* 130 head	289 d	Approp. Approp. Approp.	0.59 cfs 25 af 0.31 cfs	A-8015a A-13394a A-16437a	1935	Pumps and storage; earth dam 15 feet high, 400 feet long, with one 15-mp and two 7.5-mp all electric-powered pumps and 0.4 mile of 5- and 6-inch pipe.	Portion of area irrigated recaived eupplemental water purchased from Pacific Gas and Electric Company.
11N/7E-17P1 (Sheet 23)	Susis I. and W. F. Ross	Tributary to Secret Ravine	Irrig. Stock.	27 acres by sprinkler 35 hesd	15	Approp.	0.5 cfs	A-15910a	1916	Pump; 5-hp electric motor with 2-inch pipeline.	
11N/7E-19R1 (Sheet 23)	Guy Schoonderwoerd	Tributary to Secret Ravine	Irrig.	12 acres by sprinkler	22	Riparian	1	1	About 1950	Pump; 5-hp electric motor with 0.3 mila of 4-inch pips.	
11N/7E-20G1 (Sheet 23)	Joe Doisa	Secret Ravina	Irrig. Stock.	22 acres by sprinkler and floeding 30 head	57	Approp.	0.12 cfs	A-7646ª	1932	Pumps; 5- and 10-hp elactric motors with 0.3 mile of 4-inch pipe.	
11N/7E-20J1 (Shret 23)	I. C. Lewis L. E. Wyatt	Pennsylvahia Ravine	Irrig. Stock.	28 acres by sprinkler 300 head	55	Approp.	0,36 efs	A-3789ª	1924	Pump; 3-hp electric motor with 0.4 mile of4-inch pipe.	Former owner: George M. Dyke.
* See remarks.	ika.										

* See Temarks.

* How additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

-- Information not available.

For lettered footnotes, see last page of table.

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

					Reported amount	al water and Electric	al water and Electric		from then from theny.	I. Yates,	F. Adams,	Elma E.	by water and Electric r right in	n tract. I by water and Electric r right in
	Remorks				Former owner: Hodges, Report diverted is for 1958.	Reservoir received eupplemental water purchased from Pacific Gas and Electric Company.	Reservoir received supplemental water purchased from Pacific Gas and Electric Company.	No use in 1957.	deceived supplemental supply from IIN/75-5542 and purchased water from Pacific Gas and Electric Company. Appropriative water right in name of J. A. Beek.	Former owners: J. H. Meadows, T. K. Holmes, R. E. Rigg, E. S. N. Cottrell.	Former owners: G. F. Cane, M. H. W. Smith.	Former owners: Verner G. and Elma Kokila.	Amount diverted supplemented by water purchased from Pacific Gas and Electric Concenty. Appropriative water right in name of J. A. Beek.	Diversion used to supply urban tract. Amount diverted supplemented by water purchased from Pecific des and Electric Company. Appropriative water right in
	Description of diversion system		Pump; 7.5-hp electric motor with 0.2 mile of 6-inch pipe and 0.1 mile of 2-inch pipe.	Pump; 5-hp electric motor with 0.2 mile of 3-inch pipe.	Pump; 10-hp electric motor with 0.2 mile of 4-inch pipe.	Storage; earth dam 22 feet high, 640 feet long.	Storage; earth dam 20 feet high.	Storage; earth dam 15 feet high, 500 feet long.	Storage; earth dam 20 feet high, 550 feet long.	Pump; 7.5-hp electric motor with 0.2 mile of pipe.	Storage and pump; earth dam 8 feet high, 200 feet lang, with a 3-hp electric-powered pump and 0.2 mile of 2-inch pipe and earth ditch.	Storage and pump; earth dam 14.5 feet high, 625 feet long, with a 20-np electric- powered pump and 0.5 mile of 6-inch pipe.	Gravity and storage; earth dam with 0.2 mile of earth ditch to llN/7E-35Kl.	Pump; electric motor with 6-inch pipeline.
Indicated date of	appra- priation or first use		1953	1956	1956	1947	1956	1950	1955	1924	1946	About 1950	About 1950	About 1950
ight	Reference		A-15318 ^a	A-16205ª	A-17300ª	1	1	A-13718 ^a	A-16650ª	A-4026 ⁸	A-11258ª	A-13839 ^a A-15077 ^a	A-13419ª	A-16650ª
Apparent water right	Amount	Rocklin Subunit (Continued)	0.5 cfs	0.14 cfs	0.3 cfs	1	1	10 af	0.2 cfs 47 af	0.31 cfs	0.75 cfs 10 af	38 af 16 af	0.3 cfs 56 af	0.20 cfs 47 af
Appe	Туре	Subunit	Approp.	Approp.	Approp.	e	(a)	Approp.	Approp.	Approp.	Approp.	Approp.	Approp.*	Approp.*
	Amount diverted in ocre-feet	Rocklin	15	11	*19	Not meas.	Not meas.	(*)	Not meas.	38	Not meas. Approp.	Not meas. Approp.	Not meas.	Not meas. Approp.
Water use in 1957	Extent and method of use		9 acres by sprinkler	5 acres by sprinkler	12 acres by sprinkler and flooding	200 head	200 head	(*)	Boating and fishing in reservoir*	33 scree by sprinkler 50 head	ll acres by sprinkler and flooding 50 head	23 acres by sprinkler 24 head Fishing	30 head* Fishing, boating and swimming	(*)
	Purpose		Irrig.	Irrig. Stock.	Irrig.	Stock.	Stock. Recr.	Recr. Stock.	Recr.	Irrig. Stock.	Irrig. Stock.	Irrig. Stock. Recr.	Stock.	Domestic
	Source		Secret Ravine	Pennsylvania Ravine	Secret flavine	Tributary to Dutch Ravine	Tributary to Dutch Ravine	Tributary to Miners Havine	Tributary to Miners Rayine	Tributary to Miners Mavine	Tributary to Miners Ravine	Tributary to Minere Ravine	Miners Ravine	Miners Mavine
	Diversion nome ond/or owner		Auben J. Auhkala	George L. and Marion E. Robeon	Gordon I. and Beth L. Gulbranson	Jack Omohundro	Jack Omehundro	O'Farrell Welch	Granite Lake Lakeview Hille Association	Edward J., Soy, and K. Brown	Myron J. and Mona Stephens	Harold E. Wentsch Thomas J. Kelley	Cottonwood Lake Hidden Valley Community Assn.	Lakeview Hills Asen. Miners davine
Location	number ond Plate 2 sheet number	M D 8 & M	11N/7E_20F1 (Sheet 23)	11N/7E-20P2 (Sheet 23)	11N/7E-20P3 (Sheet 23)	11N/7E-21J1 (Sheet 23)	11N/7E-22N1 (Sheet 23)	11N/7E-23J1 (Sheet 23)	11N/7E_25N1 (Sheet 23)	11N/7E-27L1 - 1 (Sheet 23)	11N/7E-27M1 (Sheet 23)	11N/75-34H1 (Sheet 23)	11N/7E-35A1 (Sheet 23)	11N/7E-35A2 (Sheet 23)

* Sea remarke. * Sea remarke. * Information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions". * Information not available. For lettered footnotes, see last page of table.

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Location				Water use in 1957		App	Apparent water right	right	Indicated date of		
number and Plate 2 shset number	Oiversion name and/or awner	Source	Purposs	Extent and method of use	Amount diverted in ocre-feet	Type	Amount	Reference	priotion or first use	Description of diversion system	Remorks
6					2						
M D B & M					NOCK I	Tungne u	Continued)	_			
11N/7E-35K1 (Sheet 23)	Hidden Valley Community Assn.	Miners Ravine	Stock. Recr.	30 head* Fishing, boating and swimming	Not meas. Approp.*	Approp.	1.0 cfs 18 af	A-14525a	About 1950	Pump and etorage; concrete dam 4 feet high, 20 feet long, and pump with 1.5 miles of 6-inch pipe to connection with 11N/7E-35A2.	Amount diverted supplemented by water purchased from Pacific Gas and Electric Company. Appropriative water right in name of J. A. Beek.
11N/8E-6H1 (Sheet 23)	Basil T. Rogers	Miners Ravine	Irrig.	4 acres by sprinkler*	Not mass. Approp.	Approp.	0.05 cfs	A-11565ª	1946	Aump; 1.5-hp electric motor with 0.2 mile of 1.5-inch pipe.	Area irrigated receivee supplemental water purchased from Pacific Gas and Electric Company.
11N/8E-61 (Sheet 23)	Mrs. Martha A. Brennan	Miners Ravine	Irrig.	10 acrae by furrow*	Not meas. Riperian	Riperian	!	Patent	Prior 1870	Nump; concrete dam 6 feet high, 15 feet long, with a 3-hp electric-powered pump and 150 feet of 3-inch pipe and earth ditch.	Area irrigated received supplemental water purchased from Pacific Gas and Electric Compeny.
11N/3E-7B1 (Sheet 23)	Mrs. Alice Day	Miners Ravins	Irrig.	10 acres by furrow*	154	Approp.	0.25 cfs	A-17414ª	1957	Pump; earth dam 4 feet high, 20 feet long, with a 5-hp electric-powered pump and 300 feet of 1.5-inch pipe.	Former owners: Mason, Cottle. Area Irriguted received supplemental water purchased from Feeific Gas and Electric Company.
11N/8F-7N1 (Sheet 23)	Frank Poirier	Tributery to Miners Ravine	Irrig.	17 acree by sprinkler	Not mecs.	(9)	ł	t	1953	Pump and storage; earth dam 12 feet high, 600 feet long, and pump with 0.1 mile of 4-inch pipe.	
11N/8E-18B1 (Sheet 23)	Dulght Brown	Miners Ravine	Irrig. Stock. Hecr.	39 acres by sprinkler and flooding 40 head Bostiog end fishing in reservoir	73	(a)	1	ı	1945	Amp and storage; earth dum 20 feet high 450 feet long, and 5-hp electric-powered pump with 0.2 mile of 5-inch pipe.	
12N/7E-29N1 (Sheat 22)	James S. FcAdoo	Tributary to Antelope Greek	Irrig.	lk seres by flooding	Not meaa.	Riparisn	1	1	About 1944	Cravity, earth dum 3 fect high, 10 feet long, with 0.4 mile of earth ditch.	Former owner: W. E. Ashley.
12N/7F-32NJ (Sheet 22)	Frvan E. Draper John H. Carr	Tributary to Antelope Greek	Irrig.	6 acres by flooding	Not mese.	Approp.	0.037 cfs	A-17788	1920	Gravity; earth dam with short searth ditch.	Former Owners: Frank Edgar, H. C. and M. E. Jackson, C. H. and M. J. Oakley, M. G. Thavenent.
12N/7E-33E1 (Sheet 22)	Arthur L. Traylor	Antelape Greek	Irrig. Stock.	19 acres by sprinkler 45 head	17	Hiperian	1	1	About 1922	Pump; 5-hp electric motor with 3-inch pipe.	
12N/75-36EI (Sheet 22)	Theodore M. Navae	Secret Ravine	Irrif. Stock. Domestic	Irric. 11 acres by sprinkler Not meas. Approp. Stock. (4, herd Domestic (c).	Not meas.	Apprab.	0.19 cfs	A-5413ª	1927	Pump; 3-hp electric motor with 0.4 mile of 1.5-, 2-, and 3-inch pipe.	
	li,							11	11		1
* See remarks	ibe										

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TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Location				Woter use in 1957		Appo	Apparent water right	ight	Indicated date of		
number ond Plate 2 sheet number	Oiversion name and/ar owner	Source	Purpose	Extent and method	Amount diverted in scre-fest	Туре	Amount	Reference	oppro- priotisn or first use	Description of diversion system	Remarks
MDB&M					Rocklin	Subunit	Rocklin Subunit (Continued)	G .			
(Sheet 22)	Brian B. and Emma Mae Hughes*	Secret Ravine	I miles	8 acres by sprinkler and flooding	86	Approp.	0,22 cfs	A-548ª	1916	Pump; 5-hp electric motor with 0,2 mile of 2- and 4-inch pipe.	Ownership chen,ed to Calvin Burnside and George K. Anderson in 1959. Former owners: M. J. Pullan, R. Jadden, R. J. NcGowan, M. Schnuch, California Lands, Inc., A. Puttoni, J. K. Dies, E. A. Puttoni, J. K. Dies, F. Morgan, Hater right amount includes that which may be diverted by
12N/7E-36N1 (Sheet 22)	John A. Patton	Secret Ravine	Sirri	6 acres by sprinkler	0.	Approp.	0,22 cfs	A-548ª	1916	Pump; 0.1 mile of 4- and 5- inch pipe.	Pormer owners: M. J. Pallen, W. Cladden, H. S. McGowan, W. Schnaeb, Calliomia Lands, Inc., A. Putton, J. K. Dale, E. A. Reed, L. Neuffeld, M. Carter, F. Norm. Water right amount includes that which may be diverted by
					Sign	Sierro City Subunit	Subunit				
19N/11E-6F1 (Sheet 7)	C. P. and J. K. Hellman	Sen Juan Canyon	Domestic Power Fire	Domestic 25 persons Power 8 kilowatts Fire	Not meas. Approp.	Approp.	0.05 cfs	A-11106a	Prior 1914	Gr. vity; log dam 5 feet high, 25 feet long, with 0.4 mile of ditch and flume.	Former ceners: Joan L. Heinrich, E. W. Engs, Britt,
20N/11E-25D1 (Sheet 5)	Edward J. Fournier	Ladies Canyon	Prot. Irrig. Power	18 acres by sprinkler and flooding 3 kilowatts	Not mess.	Арргор.	t t	1	About 1850	Gravity; concrete dam with 0.1 mile of 6-inch pipe and 1.0 mile of earth ditch.	Pormer owners: G. H. Hale, F. E. Fournier, H. J. Fournier.
20N/12E-5F1 (Sheet 5)	Packer Lake Sierra Buttes Canal and Water Company	Tributary to Salmon Greek	Recr.	Fishing and boating	Not mess.	Approp.	į į	1	1885	Stor.ge; earth and rock dam 11 feet high, 90 feet long.	
20N/12E-9K1 (Sheet 5)	Upper Sardine Lake Sierra Buites Cenal and Water Commany	Sardine Creek	Recr.	Fishing	Not meas.	Approp.	;	1	1885	Storage, earth and rock dam 26 feet high, 180 feet long.	
20N/12E-10E1 (Shert 5)	Lower Sardine Lake Sierra Buttes Canal and Water Company.	Sardine Greek	Recr.	Fishing and boating	Not meas.	Approp.	1	1	1885	Storage, log and timber dam 5 feet high, lOO feet long.	
20N/125-22R1 (Sheet 5)	Alhert Anderson	North Yuba diver	Irrig. Stock.	15 acres by flooding 40 head	Not meas.	Approp.	0.125 cfs	A-11501ª	About 1850	Gravity; rock dam with 1.3 mile of earth ditch end flume.	Former owners: Zorroco, Noble, Anderson.
20N/12F-30H1 (Sheet 5)	20N/12P-30H1 Amy Wear Westall (Shert 5)	Colombo Ravine	Domestic	Domestic 5 connections Power 3 kilowatts	Not meas. Riperian	Riperian	1	1	About 1889	Gruvity; 0.6 mile of earth ditch and flume.	Former Gaiser.

* See remarks.
** See remarks.
** The additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
** Information not available.
** For lettered footnotes, see last page of table.

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				F 100 - 11 - 11 - 11 - 11 - 11 - 11 - 11		Ann		Links	Indicated		
Location	Diversion name			Worer use in 1957		ddr	Apporent water right	ugu	dote of		
and Plate 2 sheet number	ond/or owner	Source	Purpose	Extent and method of use	Amount diverted in ocre-feet	Туре	Amount	Reference	appro- priotion or first use	Description of diversion system	Remarks
M 80 CJ M					Sierro C	ify Subun	Sierra City Subunit (Cantinued)	led)			
21N/12E_28L1 (Sheat 3)	Lower Salmon Lake Sierra Buttes Canal and Water Company	Salmon Creek	Recr.	Fishing	Not meas.	Approp.	1	1	1685	Storage; earth and rock dam 16 feet high, 360 feet long.	
21N/12E-29H1 (Sheet 3)	Upper Salman Lake Sierra Buttes Canal ::nd 'Aster Company	Salmon Greek	Recr.	Fishing and boating	Not mess. Approp.	Approp.	1	1	1885	Storage; rock dam 13 feet high, 70 feet long.	ā
					*	Woshington	Subunit				
18N/105-29F1 (Sheet 10)	Mason J. Meredith	Humbug Greek	Irrig. Stock. Pawer Domestic	23 acres by flooding 80 head 1 kilowatt (c)	317	Approp.	150 MI	Book 1 Pg. 848 of Water Rights	1875	Gravity; concrete dam 4 f cet high, 15 feet long, with 0.6 mile of earth ditch and flume.	Former awners: F. DeBour, Fontz, Luther.
16N/10E-31H1 (Sheet 10)	North Bloomfield Community System	Humbug Creek	Munic.	40 persons*	103*	@	1	ŧ	About 1870	Gravity; log dam 6 feet high, 30 feet long, with 0.7 mile of earth ditch and 0.4 mile of ll-inch pipe.	Forner owners: Malakoff Mines, San Juan Gold Mining Company. Supplias community of North Bloomfield, Reported amount diverted is for 1958.
18N/10E-31P1 (Sheet 10)	16N/10E-31F1 Cordalia Combes (Sheet 10)	Tributary to Humbug Irrig.	Irrig.	7 acres by flooding	Not mess. Riparism	Riparian	1	1	About 1850	Gravity; earth and rock dam 1 foot high, 4 feet lang, with 0.4 mile of earth ditch.	Former owners: Blaine, Davidson.
					×	Wolf Creek Subunit	Subunit				
				1							
14N/8E-5J1 (Sheet 20)	J. M. Walkenhorst,	Wolf Greek	Irri E.	(*)	None	Approp.	150 MI	Hook 1, Pg. 172 of Water Rights	1877	Gravity; earth dam 2 feet high, 40 feet long, with 0.4 mile of earth ditch.	Former owners: Thompson, Halen D. Avery, Phace, Toblasser, Wasaley. Irrigated 5 acres by Thodding and auppiled stock water until 1957.
14N/8E-5J2 (Sheet 20)	G. R. and M. L. Milham	Wolf Greek	Irrig. Stock.	13 acres by flaoding 90 head	356*	Approp.	0.5 cfs	A-1.0615a	About 1850	Gravity; plastic-covered, rock, log, and earth dim 2 feet high, 70 feet long, with 1.1 miles of corth ditch.	Former owners: Handy Family, Mobert Cole, T. W. and T. M. Whitney, L. M. and Hazel Troxel, Butes, Tom L. Pappas, Avery, Walk, Reported amount diverted is for 1958.
14N/8E-911 (Sheet 20)	Ted C. Buck	Wolf Greek	Irrig. Stock.	178 acres by sprinkler Not meus.	Not meds.	(2)	i i	1	Prior 1957	Grevity; 1.6 miles of earth ditch.	
14N/85-17L1 (Sheet 20)	C. H. and Bernice G. Robinson	Long Hollow Ravine	Irrig.	5 acres by flooding and sprinkler	Not meas.	Approp.	0.05 cfs	A-15879ª	1955	Pump; 1.5-hp electric motor with 0.2 mila of 2-inch pipe.	

* See remarks.

* Boo remarks.

* To additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

* Information not available.

For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

				uo		uo	තු ග		ted	्रत् है है ह	E .	£ .	
	Remorks			Former owners: Jones, Hargis, Harndon. Area irrigated received supplemental water purchased from Neveda Irrigation District.	Former owner: John Skove.	Area irrigated received supplemental water purchased from Newada Irrigation District.	Pormer owner: Hoefer, Area irrigated received supplemental water purchased from Newada Irrigation District, Portion of reported area irrigated is located in Combie Subunit,	Former owner: MacDonald.	Reported amount diverted is total for April - December only, Amount diverted enters ISW/8E-10R1 (Tarr Ditch) for distribution.**	Pormer owner: New Blue Point Mining Co. Beported amount diverted is for April 1957 — March 1958 and includes supplemental water from releases upstream. Formerly known as Newada Reservoir 1914th, New Blue Point Blutch, and Campbell bitch. No diversion 1901-1912. Mater right amount includes all water imported to Wolf Creek by owner and natural waters not required by downer and stream users.	Area irrigated received supplemental water purchased from Newada Irrigation District.	Former owner: Cunninnham, Bree. Area irrigated received supplemental water purchased from Newada Irrigation District.	Former owner: Eames.
	Oescription of diversion system		Oravity; concrete dam 2 feet high, 36 feet long, with 0.1 mile of earth ditch.	Pump; ''5-hp diesel engine with 120 feet of 6-inch pipe.	Gravity; concrete dam lu feet high, 8 feet long, with 0.1 mile of earth ditch.	Pump; 7.5-hp electric motor with short 1,-inch pipeline.	Gravity and storage; earth dam 22 feet long, with 0.2 mile of earth diton.	Gravity; 0.1 mile of earth ditch.	Gravity; masonry dam & feet high, 50 feet long, with 0.4 mile of earth ditch to connection with 15%/85-1081.	Gravity; timber dam 10 feet high, 10 feet long, with US,0 mines of pipe, flume, and earth ditch.	Gravity; wood dam 1.5 feet high, 5 feet long, with 0.5 mile of earth ditch and wood flume.	Gravity; dam 15 feet high, 125 feet lors, with a short earth ditch.	Gravity; timher dam 2 feet high, 4 feet long, with 0.6
Indicoted dots of	appro- priotian ar first use		About 1926	About 1850	About 1950	1955	1914	About 1922	Prior 1957	1858	Prior 1913	Prior 1913	Prior 1957
ight	Raferenca	(pa	A-179428	1	A-17430ª	l	A-172588	Deed	1	Par. 2i	1	1	1
Apparent water right	Amount	Wolf Creek Subunit (Continued)	0,5 cfa	120 MI	0.3 cfs	i	20 af	1	;	*	1	1	1
Арря	Туре	eek Subun	Approp.	Approp.	Approp.	Riparian	Aoprop.	Ricarian	<u>e</u>	Adjud.	Approp.	Aoprop.	Riparian
	Amount diverted in ocre-fest	Wolf Cr	Not meas.	Not meas. Approp.	Not meas.	19£	20 d	Not meas. Ricarian	215*	20,678*	30d	56£	198
Water uss in 1957	Extent and mathod of use		4 acres by flooding	17 acres by flooding and sorinkler*	3 acres by flooding 14 head	<pre>l acres by flooding and sorinkler*</pre>	55 acres by sorinkler* 100 head Fishing and swimming in reservoir	18 acres by flooding	(3)	(9)	12 acres by furrow*	13 acres by furrow and flooding* 30 head	20 acres by flooding 50 head
	Purposs		Irrig.	Irrig.	Irrig. Stock.	Irrig. Stock.	Irrig. Stock. Recr.	Irrig.	Irrig. Stock. Domestic	Irrig. Stock. Domestic	Irrig.	Irrig. Stock.	Irrig. Stock.
	Source		Long Hollow Ravine	Wolf Creek	Ragsdale Creek	Ragsdale Creek	Ragsdale Creek	Tributary to French Irrig.	French Ravine	Wolf Creek	Rattlesnake Creek	Rattlesnake Creek	Rattlesnake Creek
	owner		Carl C. Wollam	Dennis and Muriel Jones	Murray and Edith E. Young	P. T. Clay	Daniel O. and M. W. Newton	George and Charles Smith	French Ravine Ditch Newada Irrigation District	Tarr Ditch* Nevada Irrigation District	Mrs. Katie M. Wheeler	G. W. Brewer	J. H. Ball
Location	and Plote 2 sheet number	MDBEM	14N/8E-20G1 (Sheet 20)	UlN/8E-20K1 I (Sheet 20)	1hN/8E-20R1 (Sheet 20)	UN/8E-2IRI (Sheet 20)	UN/8E-22P1 (Sheet 20)	15N/8E-3E1 (Sheet 18)	15N/8E-9K1 (Sheet 18)	(Sheet 18)	15N/8E-12P1 (Sheet 18)	15N/8E-13F1 (Sheet 18)	15N/8E-14J1 (Sheet 18)

* See remarks.
** For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".
-- Information no swallable.
For lettered footnotes, see last page of table.

Location				Woter use in 1957		Appar	Apparent water right	ight	Indicated date of		
number and Plats 2 sheet number	Diversion nome ond/or owner	Source	Purposa	Extent and method of use	Amount divertsd in acrs-fset	Турв	Amount	Rafaranca	appro- priation or first uss	Dascription of divarsion system	Ramorks
извои					Wolf Cre	Wolf Creek Subunit (Continued)	(Continue	(p			
15N/8E-15M1 (Sheet 18)	H. O. Pingree	Wolf Greek	Irrig. Stock.	12 acres by flooding 100 head	132	Adjud.	75 MI	Par. 51	About 1850	Gravity; rock dam 2 feet high, 35 feet long, with 0.2 mile of earth ditch.	Formor owner: Parker P. Pingree.
15N/8E-22E1 (Sheat 18)	D. M. Mefford	Wolf Greek	Irrig. Stock.	19 acres by flooding 60 head	238	Adjud.	75 MI	Par. 71	About 1887	Gravity; log dam 4 feet high, 30 fect long, with 0.9 mile of sarth ditch.	Former owner: C. A. Sammons.
15N/8E-22L1 (Sheet 18)	Leo Flury	Rattlesnake Creek	Irric.	5 acres by flooding	37	Ri per lun	1	}	About 1890	Gravity; rock dam with 0.2 mile of earth ditch.	Former owner: Wheinhardt.
15N/8E-22M1 (Shect 13)	J. W. Stevenson*	Wolf Greek	Irrig. Stock.	11,2 acres by flooding*	1,477	Adjud.	123 M	Par. 6	About 1850	Gravity; concrete dam 3 feet high, 25 feet long, with 4.8 miles of earth ditch.	Ownership changed to Robert D, and Narman T. Shine in 1959. Former owners H. B. Shilp, M. B. and M. W. Church, Max Arnold, Tabee Sugar Pric Company. Ares irrigited received supplements: water purchased from Nevada Irrigetion District.
15N/8E-22P1 (Shect 18)	Leo Flury	Rattlesnike Gresk	Irrig.	6 acres by flooding	360	Riparian	1	1	About 1890	Gravity; rock dam with 0.1 mile of earth ditch.	Former owner: Weathhardt.
15N/8E-22H1 (Sheet 18)	Yale K. Jordan	Tributary to Hattlesnake Creek	Irrig.	4 acres by flooding	Not meas.	Ripari an	ı	Deed	About 1880	Gravity; earth dam 3 feet high, with 0.1 mile of earth ditch.	Former owner: Reuter,
15N/8E-23N1 (Sheet 18)	Victor Garofalo	Tributery to Rattlesnuke Creek	Irrig.	43 acres by flooding*	746	(q)	1	ļ	Prior 1957	Grevity; sarth dam 15 feet high, 300 feet long, with 0,5 mile of earth ditch.	Former owner: Judge Snell. Area Irrigoted received supplemental water purchased from Nevada Irrigation District.
15N/8E-27Cl (Sheet 18)	O, M. Msfford	Rattlesnike Greek	Irrig. Stock.	7 scres by flooding 60 head	191	Approp.	1	Deed	About 1887	Gravity; timber and rock dam 1 foot high, 10 feet long, with 0.4 mile of earth ditch.	Former Owner: Sammons.
15N/8E-28Al (Sheet 18)	Andrew H. Hervey	Wolf Creek	Irrig. Stock.	79 acres by flooding 75 head	1,086	Adjud.	75 MI	Par. 11	About 1850	Gravity; earth and rock dam with 3.5 miles of earth ditch.	Former owners: Tom and John Sleeman, Louis Sleamun.
15N/9E-17M1 (Sheet 18)	Charles A. Morand1	South Wolf Greek	Irrig. Stock.	7 acres by flooding 100 head	Not meas.	dparlan	1	1	About 1870	Cravity; two small earth and log dams with 0.2 mile of earth ditch.	Former owners: Antoine Pettit, Louisa Tang.
15N/9E-18P1 (Shert 18)	Charles A. Morandi	Woodpecker Greek	Irrig. Stock.	19 acres by flooding 50 hend	Not mess.	Afrand an	ı	1	About 1890	Grewity; four small earth and log dams with 0.2 mile of earth ditches.	Former owners: Antona Beulaque, Loute Beulaque,
15N/9E-181U (Sheet 18)	Antone Rondoni	South Wolf Greek	Irrig. 5 serva Stock. 20 head Domestic (c)	oy flooding	Not meas.	Approp.	1	Book 43 of Deeds Pg. 305E	About 1880	Grovity; earth and log dum 4 fact high, 20 feet long, with 0.2 mile of earth ditch.	

* See remarie.

* For interest information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions".

-- Information not available.

For lettered footnotes, see last page of table.

TABLE 6 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

				ryland	ting Co.	ted by use Gas and Grass rigstion intion		Supplied			
	Remorks			Former owners: Macarey, Idaho-Maryland Mining Corporation, McBoyle,	Former owner: Idaho-Maryland Mining Co.	Stream flow of Wolf Greek augmented by release upstream. Industrial use consists of aupply to Pacific Gas and Electric Commany gas plant at Grass Valley, delivered by Nevada Irrigation District under a 15 MI appropriation claimed by Pacific Gus and Electric Company.**	Former owners: Drew, Geach.	Pormer owner: Empire Mine. Suppression of the Stang mill until 1957.			
	Dsscription of diversion system		Storage; concrete dam 15 feet high, 100 feet long.	Gravity; timber and earth dam, 3 feet high, 6 feet long, with 0.7 mile of earth ditch.	Gravity; 1.6 miles of earth ditch.	Gravity, wood dam 2 feet high, 6 feet long, with 1.0 mile of earth ditch,	Gravity; timber and rock dam, 2 feet high, 30 feet long, with 0.6 mile of earth ditch.	Pump; 7.5-hp electric motor with short 3-inch pipeline.	Gravity; timber dam 3 feet high, 8 feet long, with 0.6 mile of earth ditch.		
Indicated date of	appra- priation or first use		About 1920	1927	Prior 1957	Prior 1914	About 1880	About 1880	About 1880		
right	Raferance	(Pa	}	\$ ē	1	1	1	1	ł		
Apparent water right	Amount	Wolf Creek Subunit (Continued)	;	1	ļ	*	ł	1	1		
App	Туре	eek Subu	2	Riparian	(9)	*	Approp.	Approp.	Approp.		
	Amount diverted in acre-fest	Wolf Cr	Not meas.	150	22	Not meas,	Not mess. Approp.	Not meas. Approp.	Not meas. Approp.		
Water use in 1957	Extent and method of use		150 head	54 acres by flooding 60 head	Lumber Millpond	(3)	12 acres by flooding and sprinkler 28 head	11 acres by sprinkler 25 head (*)	14 acres by flooding 20 head		
	Purpase		Stock.	Irrig. Stock.	Indust.	Irrig.	Irrig. Stock.	Irrig. Stock. Mining	Irrig. Stock.		
	Saurce		South Wolf Greek	Tributary to Wolf Creek	Wolf Greek	Wolf Greek*	Wolf Creek	South Fork Wolf Greek	South Fork Wolf Creek		
i	Diversion name and/or owner		C. E. Newnan	Malcolm Hammill	Idaho-Maryland Ditch Oro Lumber Co.	Stone Ditch Nevada Irrigation District	Manuel Gallino	Newmont Mining Co.	Newmont Mining Co.		
Location	number and Plofe 2 sheet number	мрвен	15N/9E-30El (Sheet 18)	16N/8E-24K1 (Sheet 16)	16N/8E-25Al (Sheet 16)	16N/8E-25C1 (Sheet 16)	16N/8E-26G1 (Sheet 16)	16N/8E-26P1 (Sheet 16)	16N/8E-26R1 (Sheet 16)		

^{* -} See remarks. ** - For additional information see Appendix D, "Detailed Descriptions of Certain Surface Water Diversions". --- Information not available.

e - Planer County Records of Water Rights.

G - Amount Includes purchased water.

G - Nevela County Records.

h - Sierra County Records.

The actual amount of the right, if established and known, and a reference to the source of data are also included. Although this information is believed to be accurate, it is emphasized that it is not based on sworn claims or testimony and should in no way be construed to represent a conclusive determination of water rights.

Diversions for which the apparent water rights are based on adjudication are listed as "adjudicated," and those based on appropriative rights are listed as "appropriative."

Those which have been neither adjudicated nor based on appropriation, but for which the area of use is apparently riparian to the stream or the owner claims such, are listed as "riparian."

Diversions listed as adjudicated or appropriative may also be riparian, although no attempt was made in such cases to determine the riparian status.

In the case of an adjudicated right, the amount of the decreed right is tabulated. For an appropriative right, the amount tabulated is that found in the filing, if any, or in the application, or in the latest permit or license which may have been issued in connection with the application. The reference given for an appropriation initiated after the effective date of the Water Commission Act (1914) is the number of the application on file with the State Water Rights Board. For appropriations prior to 1914, the reference, if known, is the book and page number of the official county record in which the filing is recorded. Such filings were made in accordance

with Sections 1410 and 1422 of the Civil Code, as enacted in 1872, which preserved the priority of a diligent appropriator from the time of filing and enabled him to prevail over a concurrent nonstatutory appropriator. When a mention of the water right is made in the patent or deed of the property, and if no other reference is known, either "patent" or "deed" is given as a reference.

Detailed information with respect to diversions which could not be adequately presented in Table 6 is included in Appendix D. The information relates to diversions by Browns Valley Irrigation District, Nevada Irrigation District, and Pacific Gas and Electric Company.

Records of Surface Water Diversions

water diversions were made by the Department of Water Resources during part or all of the years 1957 and 1958 whenever it was feasible to measure the flows. Most of the diversions for nonagricultural uses and some of those used for agriculture are operated throughout each year. Substantially all diversion measurements were started in March or April of 1957, prior to the commencement of intensive irrigation, and the measurements were continued through the irrigation season. Measurements of the year-round diversions were continued into 1958 to obtain a

complete year of record, and diversions for which measurements were not started until late in 1957 were measured through 1958. A few diversions were located at a late stage in the survey, and no measurements or estimates of these were attempted. Results of the measurement program are summarized in five tables. Table 7 presents monthly records of surface water diversions of individual diverters; Table 8 presents monthly records of surface water diversions by Nevada Irrigation District; Table 9 presents monthly records of surface water diversions by Pacific Gas and Electric Company; Table 10 presents monthly records of surface water imports and exports; and Table 11 presents monthly records of miscellaneous streamflows required for computing consumptive use. Measurements of each diversion: were made at a location above the area of first use and as close to the diversion intake as possible, but below any regulatory spill. Exceptions are noted in the tables.

Determinations of diverted quantities were made primarily by measurement of open channel flow and by testing of pumps. Periodic current meter measurements of open channel flow were made during the diversion season to obtain channel ratings. The water surface stage was recorded either by weekly observations of a staff gage or with a continuous water stage recorder, from which quantities of flow were calculated. Existing weirs were used whenever available. These observations were supplemented by interview of water users to obtain additional staff gage readings

and to obtain data on possible abrupt changes in operations between readings. On some diversions, where measurements were normally made by the diverter, the records were obtained from the diverter.

The values in Tables7 through 11 are based on various methods listed in the column entitled, "Method of observation and calculation." When the monthly data were sufficiently reliable, monthly values are shown. When the diversion for a given period is known to have been zero, it is so indicated. The data, however, were sometimes not sufficiently detailed to justify a breakdown into monthly values. When data were incomplete or uncertain, they are designated as estimates. Notations regarding the extent of irrigation period indicate the overall period of irrigation, but not necessarily that daily or continuous irrigation was practiced through the period. Notations that a stream source was "dry" at a certain time indicate that streamflow was so low as to make diversion infeasible.

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT
1957-1958

Develope above Otto Develope Otto Ot																		
Separation Comparison Com	Locotion	Diversion nome or owner	Use	Point of measurement or estimate	Method of observation and colculation				1		L yo	, nu	ul Ac					
Separation Comparison Com	N 28 & N					— ₹	leghony	Subu	int.									
State Date						(No	diversion	пе шеаец	red)									
No. Control Control						Aubr	Jen Rove	ine Sub	ţ:un									
House the halfige Experience September 1577 House the state September 1577	12N/6E-13A1		Irrigation 6/1/57 - 10/12/57 and etockwatering	At intake		1957	٥	0	0	0							896	
Particle A. Huntils Explosive 6/1574	12N/7E-9P1			At pump		1957	0	0	0	0	0	-		~			п	
Frank R. Newcemb 100/29/3 and	12N/7E-13CL		Irrigation 6/5/57 9/20/57, poultry watering and recreation			1957	0	0	0	0					3		188	Reported total is for 1/1/57 - 9/20/57 enly. Small undetermined amount diverted after period of irrigation
Elbar R. Comley Inclination Inclinatio	N/7E-16H1	Frank H. Newcomb	Irrigation 4/1/57 - 10/5/57 and atockwatering	0.1 mile below reservoir		1957	0	0									127	
Ellier A, and Mattle Grant Grant	N/7E-1801					1957	0	0	0					8	25		131	
Parallele	N/7E-19A1		Irrigation 5/15/57 - 9/10/57, etockwatering, and recreation		Estimeted	1957	1	1	1	1	1	1	1	ı	ı		20	
Substitute Trigation 5/2/57 - Near intake Staff gage and 1957 Substitute Staff gage and Sta	N/7E-21C1	Ray and Lillian LaFaille	Irrigation 5/1/57 - 9/27/57 and etockwatering		Staff gage and depth-flow reletionship	1957	1	1	1						*01	'	8	* Reported total is for 5/1/57 - 9/27/57 only. Amounts for May - July and September partially setimated.
Paul and Elizabeth Ripley Irrigation At pump Pump test and power lags 1957 of 0 0 0 0 1 8 6 7 4 1 0 0 0 1. W. and Mallie E. decknatering below terminated strend At pump Precords and gaphI.ow for intake learning terminated strend Staff gage and daphI.ow relationship 1957 of 0 0 0 54 54 33 36 29 0 0 C. 1. Dimmler Irrigation of 5/5/57 - accordenenting At pump At pump Staff gage and daphI.ow relationship 1957 of 0 0 0 0 54 54 33 36 29 0 0 0 C. 1. Dimmler At pump At pump Pump test and power 1957 of 0 0 0 0 54 33 36 29 0 0 C. 1. Dimmler At pump Pump test and power 1957 of 0 0 0 0 2 7 5 1 0 0	N/7E-23M		Irrigation 5/23/57 - 10/31/57 and eteckwatering	Near intake	Staff gage and depth-flow reletionship	1957	0											
J. W. and Nellie E. Grockestering elockestering At pump Pump test and power process 1957 O O O S4 7 7 2 O O O O O S4 S5 <	N/7E-23F1		Irrigation		Pump test and power records	1957	00	00	00	70	45	40 ~3		C-0	45		338	
Marrill H. Carlton Irrigation 6/5/57 - Near intake Staff gage and depth-flow 1957 O O O O S4 S4 33 36 29 0 0 2	N/7E-23H1		Irrigation and etockwatering		power		0	0	0		64	•		~	7		32	
C. 1. Dimmler Irrigation 6/19/57 - 0.1 mile below intake definition and power 12/27 and electrockwatering accordenated and power 1957 0 0 0 0 0 2 7 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N/7E-24.A1		Irrigation 6/5/57 - 10/24/57	Near intake	Staff gage and depth-flow relationship	1957	0	0	0	0		75					206	
George Scorinakie Irrigation	N/7E-24F1	C. L. Dimmler	Irrigation 6/19/57 - 11/13/57 and etockwatering	0,1 mile below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0						52	
	N/8E-3F1	Ceerge Soorinakie	Irrigation	At pump		1957	0	2	0	0	0	04	7	5	↔		15	

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TABLE 7 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

1957-1958

	Total		n8	Ť.	207	59	za .	30 Reported amounts for June and September partially estimated,			245* Reported amounte include all water diverted from the two diversion points	111* Reported total is for 6/1/57 - 10/30/57 only.	007	186* Reported total is for 7/1/57 - 10/30/57 only. Amounts for July and October partially estimated.	185* Reported total is for 6/15/57 - 9/30/57 only.	4,50° Reported total is for 5/25/57 - 10/17/57 only. Amounts for May, June and July partially stinated.	94. Reported total is for 5/8/57 - 10/31/57 only, Amounts for May and June partially
	Dec		0	0	0	.0	0	0	0		17	1	1		1		0
	Nov		٥	0	0	0	0	0	0		16	1	ı	1	1	1	0
	oct 0		0	0	76	4	٦	0	0		17	16	,	£23	,	ನೆ	10
	Sept		12	6	33	23	en .	* 7	0		%	12	1	17	•	87	17
re-feet	Aug		23	4	8	9	2	10	н		*8	55	1	977	1	103	18
, in oci	inC		£	4	22	п	9	~	п		%	%	1	#9 [†]	1	108*	18
diverted	Jun		ম	N	67	15	en	*6	ŧ.		*8	ຄ	1	1	•	104*	17*
Amount diverted, in ocre-feet	Moy		8	1	0	15	н	0	0		56	1	1	1	1	**	*1
4	Apr	(pan	٥	0	0	0	0	0	0		16	1	1	t	1	1	
	Mar	(Contin	0	0	0	0	0	0	0	tiuno	17	1	1	1	1	1	
	я. О	Subunit (Continued)	0	0	0	0	0	0	0	3ar Sub	35	1	1	1	t	t	1
	Jon	Ravine Su	0	٥	0	0	0	0	0	 Bullards Bar Subunit 	17	t	t	1	t	1	•
	Year	Auburn Ra	1957	1957	1957	1957	1957	1957	1957	_ 3	1957	1957	1957	1957	1957	1957	1957
Method	observation and	AUD	Staff gage and depth-flow relationship	Pump test and power.records	Staff gage and depth-flow relationship	Staff gage and depth-flow relationship	Pump test and power records	Staff gage and depth-flow relationship	Staff gage and depth-flow relationship		Current meter and operation record	Current meter and straight line prorate	Estimated	Staff gage and depth-flow relationship	Estimated	Staff gage and depth-flow relationship	Staff gage and depth-flow relationship
Doint of	measurement or estimate		0.1 mile below intske	At pump	At intake	0.2 mile below intake	At pump	At intake	At intake		1.3 mile below intake	At intake	1	Near intake	O.l mile below intake	At intake	At intake
	Use		Irrigation 5/1/57 - 10/1/57, domestic, and stockwatering	Irrigation and stockwatering	Irrigation 6/1/57 - 10/31/57	Irrigation 5/10/57 - 10/31/57	Irrigation	Irrigation 6/5/57 - 9/12/57	Irrigation		Irrigation and domestic	Municipel	Irrigation, domestic, stockwatering, and power	Irri jution	Irrigation	Irrigation and stockwatering	Irrivation 5/8/57 - 10/19/57 and stockwatering
	Diversion name or awner		Milt Wenfree	Everett M. Ludwig	G. G. Johnson	Jamison Ditch	Roland C. Lapp	Roland C. Lapp	Holand C. Lapp		Lloyd Williams Alex Moran	Camptonville Water Service	Erle Pauley	Dr. E. A. Nelson	Fred N. Saker	James and Frank Pendola	Julius A. Cassano
	Location	20 00 00 00	12N/8E-5KI	12N/8E-10FI	12N/8E-17B1	12N/8E-18B1	12N/8E-18G1	12N/8E-18Q1	12N/8E-18R1		16N/76-3J1 16N/76-3K1	18N/8E-11A	18N/8E-8F1	19N/8E-28N1	19N/8E-31G1	19N/8E-34B1	198/82-3541

* Sae ramorks ** Estimoted - Monthly volus unknown MONTHLY RECORDS OF SURFACE WATER DIVERSIONS YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

TABLE 7 (Continued)

1957-1958

																	۱	
Location	Diversion name		Point of	Method of					Am	Amount diverted, in ocre-feet	erted, i	n ocre-	feet					
number	or owner	Use	measurement or estimote	observation and colculation	Yeor	Jon	Feb A	Mor A	Apr M	May Ji	Jun Jul		Aug Sept	pt Oct	↑ Nov	Dec	Total	Kemorke
M D 8 & M					— ē	Comp Beale Subunit	e Subu	nit.										
					(No d	diversione measured)	ne measu	red)										
					Ca	Camp Far West Subunit	est Sut	Junit										
14N/7E-33C1 N	Kenneth J. Casper	Irrigation 5/15/57 - 10/30/57	At intake	Estimated	1957	t	1		+		1				,	1	138	
						Cambie Subunit	Subuni											1
					(No	(No diversione measured)	ne measu	(pear										
					- 3-	Coon Creek Subunit	k Subu	ii.										
12N/7E-2Q1	Vincant N. Anderson	Irrigation 6/1/57 - 10/5/57	100 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	*9	6* 1	71	33	0	0	%	Reported smounts for June and July partially estimated.
12N/7E-4G1	John G. Nohammed	lrrigation and stockwatering	At pump	Pump teet and power records	1957	0	0	0	m	80	12	28	ຄ	18	2 0	0	107	
12N/7E-12D1	Vincent H. Andereon	Irrigation 6/1/57 - 10/5/57	300 feet below intake	Staff gags and depth-flow relationship	1957	0	0	0	0	0	***02	2 2 2	25	92	0 4	0	8	Reported amount for July partially estimated.
12N/7E-12H1	Joe I., Garcia	Irrigation 6/12/57 - 9/15/57	200 feet below intake	Steff gage and depth-flow reletionship	1957	0	0	0	0	0	##	10# 1	a	6-	0	0	33	Reported amount for July partially estimated.
12N/8E-7F1	Manuel Jacinto	Irrigation and stockwatering	At intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	13*	15 1	16	8	12* 0	0	76	Reported amounts for June and October partially estimated.
12N/8E-7F2	Edward R. Forster	Irrigation 6/23/57 - 10/16/57 end etockwatering	25 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	7	ย	9	ນ ເ	10** 0	0	94	
13N/6E-29H1	Chamberlain Estate Company	Irrigation	At pump	Pump test and power records	1958	0	0	0	0	17	94	77 27	S.	85	0 91	0	8	
13N/7E-16Q1	C. S. Barton	Irrigation 6/1/57 - 9/25/57 end etockwatering	0.9 mile below intake	Staff gage and depth-flow relationehip	1957	0	0	0	0	0	# 02	23* 2	92	16	60	9* 10**	# 112	Reported amounts for July and November partially setimated.
13N/75-1981	Arthur B. Hopper	Irrigation 5/15/57 - 10/15/57 and stockwatering	150 feet above reservoir	Staff gage and depth-flow relationehip	1957	0	0	0	0	0	4 1	0	~	cv	1 0	0	2	Apported amount for June partially setimated.
13N/7E-26J1	Take Hanseaki	Irrigation	At pump	Estimated	1957	0	2	٥	0	2			1	1	2	3	15	
+ See ramorks	ike																	

e See remorks en Estimoted - Monthly volue unknown TABLE 7 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

1957-1958

						5	2										ı	
Location	Disection nome		Point of	Method of					Amc	Amount diverted, in ocre-feet	rted, in	ocre-f	set					
number	or owner	Use	meosurement or estimote	observation and colculation	Year	Jon	Feb M	Mor Ap	Apr Moy	y Jun	n Jul	Aug	Sept	Oct	Nov	Dec	Totol	Remarks
NDBGN				ŏ	Coon Creek Subunit (Continued)	k Subu	nit (Con	finned										
13N/7E-28K1	Frank C. McElroy	Irrigation 7/1/57 - 10/1/57 and stockwatering	100 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	0	22* 10	*06	0	0	0	62	Reported amounts for July and September partially estimated.
13W7E-29B1	Edgar E. and Ina F.	-i	Near intake	Staff gage and depth-flow relationanip	1957	0	0	0	0	30** 26	26* 26	28	43	0	0	0	153	Reported amount for June partially estimated.
13N/7E-30B1	Arthur B. Hopper	Irrigation 5/15/57 - 10/15/57 and stockwatering	300 feet below intake	Staff gage and depth—flow relationship	1957	0	0	0	0	2	7 7	~	0	0	0	0	13	
13N/7E-30GL	Arthur B. Nopper	Irrigation 5/15/57 - 10/16/57	150 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	-	н н	4	-	0	0	2	
13N/7E-3092	Herman L. Robbins	Irrigation 5/18/57 - 10/20/57 and etockwatering	At intake	Staff gage and depth-flow relationship	1957	0	0	0	0	*	*6	8	~	H	0	0	25	Merorted amount for June partially estimated.
13N/7E-30RI	Earl G. Calkins	Irrigation and atockwatering	At pump	Estimated	1957	0	0	0	0	ı		1	1	0	0	0	23	
13N/7E-31H1	Mrs. May Herold	Irrigetion 5/1/57 - 12/31/57 and etockwatering	Near intake	Staff gage and depth-flow relationship	1957	1	1		- 12	120** 121*	1,* 156*	5* 187	187	777	*28	****8	1,041*	Reported total is for May - December only. Amounts for June, July and November partially estimated.
13N/7E-32H1	13N/75-32H1 Walter Allen	Irrigation and stockwatering	300 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	0	1* 1	N	m	*	**7	ੜ	Reported amounts for July and November partially estimated.
13%/7E-32H2	Walter Allen	Irrigation 6/1/57 - 10/2/57 and stockwatering	300 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	8* 12	র ≈	オ	8	*#	*** 07	166	Reported amounts for June and November partially estimeted.
13N/7E-32K1	Walter Allen	Irrigation 6/1/57 - 10/2/57 and etockwatering	At intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	21* 14	. 19	*21	*.	*	1	*19	Reported total is for June - October only, Amounts for June and September partially estimated,
13N/7E-34A1	I. R. and Mary Souza	Irrigation 6/11/57 - 10/1/57	1.1 miles below intake	Staff gage and depth-flow reletionship	1957	0	0	0	0	2 0	13*	9 13	#	0	0	0	977	Merorted amount for June artially estimated.
13N/7E-34GL	I. R. and Mary Souza	Irrigation	150 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	*6	8	12	0	0	0	55	Reported amount for June partially estimated.
13%/7E-35A1	Mrs. Mary G. Perreire	Irrigation 5/18/57 - 10/15/57 and etockwatering	100 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0 1	10** 2	23* 31	88	31	tio tio	0	0	14	Reported amount for June partially estimated.
13N/7E-36J1	Stanley J. and Betty R. Samson	Irrigation and etockwatering	At pump	Rump test and power records	1957	0	0	0	0	7 1	4	7 08	1/2	0	0	0	25	
13N/8E-26F1	Don L. and Lillian D. Castle	Irrigetion and stockwatering	At pump	Pump test and power records	1957	0	0	0	0	1 6	9	80	7	0	0	0	8	
13%/8E-34FI	James E. and Elsie W. Webb	Irrigation and stockwatering	1	Estimated	1957	0	0	0	0		Ì	,	1	0	0	0	8	
o Sae remorks	orks																l	

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MONTHLY RECORDS OF SURFACE WATER DIVERSIONS YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

1957-1958

			Daine of	Sanchoad of														
Location	Diversion nome or owner	Use	measurement or estimate	observation and coiculation	Yeor	Jan Fe	Feb Mor	r Apr	Моу	Jun	P)	Aug	Sept	0ct	Nov	Dec 1	Totol	Remorks
HDB&M				3	Coon Creek	Subun	Creek Subunit (Continued)	nued)										
13N/8E-34N1	Alvin W. Musso	Irrigation and stockwatering	At pump	Pump test and power records	1957	00	• •	00	0.4	6.2	49	9 4	m.o	44	00	00	28	
					_ De	Creek	Deer Creek Subunif											
16N/6E-24L1	Donald and Churles Staples	Irrigation and stockwatering	C.8 mile below intake	Staff gage and depth-flow relationship	1957	0	0	0 14		* 77 *	* 12**	17	6	8	0	0	19	
16N/7E-21N1	Roy Van Timer	Irri ation and stockwatering	75 feet below intake	Staff gage and depth-flow relationship	1957	00	00	00	39	* 65 *	67 76	79	75*	\$22	00	00	323 Heg	Reported amounts for June and September partially estimated.
16N/7E-22N1	Roy Van 11ger	Irrigation and stockwatering	At intake	Staff gege and depth-flow relationship	1957	0	0	0	₩.	* 22	*	35	র	19	0	0	132 Reg	Reported amount for June partially estimated.
16N/7E-23N1	Dr. Malcolm R. Hill	Irrigation and stockwatering	1	Estimated	1957	0	0	0	100	0	0	0	0	0	0	0	00	
16N/7E-29E1	J. C. Peacock	Irrigation	400 feet below intake	Staff gage and depth-flow relationship	1957	1	1	%	397	3%	124	170	82	16	12	12 1	1,107* Rep	Reported total is for 4/29/57 - 12/31/57 only.
16N/9E-17J1	Nevsda City Water Department	Municipal	I	Estimated	1958	1	1	1	1	1	1	1	1	ı	ı	ι ω	3,272	
					- 60 	ner Pos	Donner Pass Subunit	*-1										
17N/11E-4P1	Tahoe Sugar Pine Co. Municipal and industrial		Near intake	Staff gage	1957	1		1	1	1	301*	298	2/17	254	*702	198* 1	1,526* Rep	Reported total is for 7/28/57 - 12/31/57 only. Amounts for July, November, and December partially estimated.
					۵	y Creek	Ory Creek Subunit											
15N/7E-25H1	Clarence M. Slack	Irrivation, recreation, At pump and stockwatering	At pump	Rump test and power records	2561	0	0	0	8	12	77	16	12	~	0	0	62	
					-0-	tch Flat	 Dutch Flat Subunit 											
					(No di	versions	diversions measured)	(F										
	(
																	_	

6 Sss rsmorks 66 Estimoted - Monthly volus unknown TABLE 7 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

1957-1958

				200						Amount diverted, in ocre-feet	diverted	, in oc	re-feet						
Locotion	Oiversion name or owner	Use	meosurement or estimote	observation and colcutation	Yeor	Jon	Feb	Mor	Apr	Моу	nnp	Jul	Aug	Sept	Oct h	Nov	Dec Te	Totol	Remorks
N 7 E O N					Fre	nch Co	French Corral Subunit	bunit											
16N/8E-451	Joy Milliard	Irrigation and domestic Near intake	Near intake	Current meter and straight line prorate	1958	1	1	ı	t	ı	*11	10	я	17	91	12	10	87*	Reported total is for June - December only, Amount for June partially estimated.
17N/7E-33R1	C. R. and G. W. Maish	Irrigation 5/16/57 - 9/15/57 and stockwatering	Nsar intake	Estimated	1957	t	•	ı	ı	ı	1	1	1	1	ı	1	ı	* 76	Reported total is for 5/16/57 - 9/15/57 only.
17N/85-1N1	Vincent Bellet	Irri ation and stockwatering	O.1 mile below intake	Staff game and depth-flow relationship	1957	0	0	0	0	0	12**	16**	17	13	9	*5	**	7/2	Reported amount for November partially estimated.
17N/8E-9CI	Burt L. Burda	Irri,ation 5/15/57 - 7/15/57, recreation, and stockwatering	At reservoir	Estimated from change in storage	1957	0	0	0	0	t	t	t	0	0	0	0	0	57	
17N/8E-15D1	Minona Mining Co.	Irrigation, stock- wathring, and domestic	Near intake	Staff gage and depth-flow relationship	1957	10	10	10	10	207	172	42*	32	21	25	6,3	0 16	232*	Menorted total is for July - December 1957, only. Amount for July partially estimated.
17N/8E-20G1	Frank S. Header	Irrivation	At intake	Staff gage and delth-flow relutionship	1958	0	0	0	0	**5	* &	* &	19*	12*	0	0	0	32	Heported amounts for August am September partially estimated.
17N/8E-25C1	Piedmont Campfire Girls Group	Mecreation 4/8/58 - 10/30/58 and storige	At intake	Estimated from change in storage	1958	0	0	0	t	ı	t	ı	t	1	t	0	0	159*	Total includes 95 af diverted to fill lake in April and released back to Nock Creek in October.
17N/9E-27K1	D. M. Loney	Irrigation 4/15/58 - 11/1:/58 and stockwatering	Near intake	Current meter and straight line prorate	1958	0	0	0	16**	31**	58**	17*	Ħ	10	*^	***	0	118	Reported amounts for July and October partially estimated.
17N/9E-28N1	William L. Davies	Irrimation, stock- watering and domestic	Near intake	Gurrent meter and straight line prorate	1958	ı	1	•	1	****77	**	ನ	オ	2	7	5	7	*68	Reported total is for 5/15/58 - 12/31/58 only.
TX76-36/NLT	Harry M. Devis	Irrigation and domestic	Near intake	Estim ted	1958	ı	1	t	t	1	1	ı	ı	1	1		ı	*77	May - December only.
17N/9E-35E1	Arbogast Brothers	Irrigation and stockwatering	Near intake	Current meter and straight line prorate	1958	0	0	ဂ	0	25**	777	*77	7**	0	0	0	0	100	eported smount for July pertially estimated.
					French		Dry Creek Subunii	ubanıt											
16%/5E-1201	Neal W. Duckels	Irrightion 5/15/57 - 9/25/57	Near release from reservoir	Staff gage and depth-flow relationship	1957	t	(ı	1	12**	21**	ដ	87	15	t	1		*06	deported total is for 5/15/57 - 9/25/57 only.
16N/5E-12G1	Neal W. Duckels	Irrivation	At release from reservoir	Estimated	1957	0	0	0	0	1	1	1	1	1	1	0	0	46	
16N/6E-7L1	Nenry P. Snith	Irrigation and stockwatering	Near intake	Staff mage and depth-flow relationship	1957	1	1	t	515*	658	548	707	24.7	252	540	159	570	3,503*	desorted total is for April - December only, Amount for April partially estimated.
* See, remarks	Orks																		

* See, remarks en Estimated - Manihiy value unknawn MONTHLY RECORDS OF SURFACE WATER DIVERSIONS YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

TABLE 7 (Continued)

1957-1958

Staff gage and depth-flow relationship Staff gage and depth-flow relationship 1957 0 0 0 0 12
French Dry Creek Subunit (Continued) 1987
1957 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1957 5** 4** 5** 5** 5** 5** 5** 5** 5** 5**
1957 5** 4** 5** 5** 5** 1958 0 0 0 1 1958 0 0 0 1 1958 1 7 73 81 78 6 1957 1957 1957 1957 1957 1957
1957 0 0 0 1 1957
Good Yeors Bor Subunit 1957
Goodyeors Bor Subunit 1957 81 73 81 78 8 1957
1957 81 73 81 78 8
1957
1957
Operation records
1958
Ourment meter and 1957 11 10 12 11 28 operation records
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* Sas ramoras ** Estimotad + Monthly value unknown

TABLE 7 (Continued)
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

1957-1958

Size Control										Ame	win dive	orted, in	dere-	a a					
Execution Exec	Location	Diversion name or owner	Use	Point of meosurement or estimate	Method of observation and cotculation	Year					y du	n July	l Aug			Nov	Dec	Totol	Remorks
Communication Communicatio						T													
National Column C	W 86					Green	horn Cr	eek Sui	pourit										
No.	N/9E-29MI	Elmo G. Cox	Irrigation	Near intake			0	0	0	0					10			77	Reported amounts for July and October partially estimated.
Number N	N/9E-32D1	Andrew Usland	Irrigation and stockwatering	300 feet below intake	Estimated	1958	1	1	1	1					I	1	ı	215	
Control Cont	N/9E-32M		Irrigation 6/12/58 - 11/13/58 and stockwatering	Near intake	and '	1957	0	0	0	0					4.5	33	&	373	
Company Comp							o Parte	Subani	400 1										
M. Kohn Trijokion 5/1/34 Au point of use Sprinkler test and solvention measured) Pike Subunit Pike Subu							diversio	ins measu	ured)										
W. Kehn Irrigation 5/1/50 - A. Point of use Sprintler test and long flower test and l					Orchord	— ond P	eosant	Grove (Greeks	Subuni	-								
M. Kehn 10/8/38 and 20/8/38 an							diversio	ns measu	(paul										
Irrigation 5/1/58 - At point of use Staff gage and 1957 O O O O O O O O O O O O O O O O O O							Pike S	ubunit											
Countingham Ditch Irrigation and domestic Rear intake Staff gage and depth-flow relationship 1957	W/8E-6R1	M. Kehn	Irrigation 5/1/58 - 10/18/58 and stockwatering	At point of use		1958	0	0	0	0					1	0	0	~	
Pruncis J. and Irrivation, stock- O.5 mile below intake Staff gage and delay 8. Parker Irrivation, stock- O.5 mile below intake Staff gage and depth-flow Trrivation and power A. Intake Satimated 1957 Coorpe Mavias Irrivation and A. Dump Pruncis J. and Pruncis J.	M/8E-15A1	Cunningham Ditch	Irrigation 6/1/57 - 10/20/57 and stockwatering	0.2 mile below intake	Staff gage and depth-flow relationship	1957	0	0	0	0					য	0	0	587	Reported amount for August partially estimated
Francia J. and Irrivation, stock- 0.5 mile below intake Staff gage and deph-Liow deph-	M/8E-15A1	George Butz	Irrigation and domestic	Near intake	Estimated	1957	1	1	1	1	1	1			1	1	1	07	
Weeley 8. Parker Irrivation and power At intake Estimated 1957	M/8E-2001	Francis J. and Ruth Bartsch	Irri ation, stock- watering, and recreation	0.5 mile below intake	Steff gage and depth-flow relationship	1957	**02								26	27*	30**		Reported amounts for July and November partially estimated,
George Mayrias Irrigotion and st.pump At pump Pump test and power records 1957 0 0 0 0 1 2 4 4 2 0 0 0 0 0 1 2 1 3 3 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N/95-8M1	Wesley 8, Parker	Irri ation and power	At intake	Estimated	1957	1	1	1	t	1	1			1	*	1	*0%	Reported total le for June - September only.
George Wavelas Irrigation and At pump Pest and power records 1957 0 0 0 0 1 2 4 4 2 0 0 0 0 0 1 2 1 3 3 2 1 0							Rocklin	Subuni											
	IN/6F-25G1		Irrigotion and stockwatering		Pump test and power records	1957	00	00	00	00						01	00	នួន	
						I													

See remarks Estimated MONTHLY RECORDS OF SURFACE WATER DIVERSIONS YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

TABLE 7 (Continued)

1957-1958

									ă	mount d	iverted,	Amount diverted, in acre-feet	-feet					_	
Location	Diversion name or owner	Use	Point of measurement or estimate	Method of observation and calculation	Year	Jan	Feb	Mor	Apr	May	Jun	A luc	Aug S	Sept 0	N soo	Nov Dec	ec Total	10	Remorke
M D B & M					Rocklin		Subunit (Continued)	(Denu											
11N/7E-1CL	Gorden Glenn P. A. Hærris	Irrigation 5/1/57 - 10/20/57 and stockwatering	500 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	##97	51	73	9	72	*76	**0%	-7	1,66 Re	Reported total is for 5/1/57 - 11/15/57 only. Amount for October partially estimated.
1111/75-241	M. A. Herris	Irrigation	At pump	Estimated	1957	0	0			ı	1	,		1	0	0	0	27	
11N/7E-10H1	Frank W. and Ora I, Grossley	Irrication 6/18/57 - 10/5/57 and stockwatering	At intake	Staff gage and depth-flow relationship	1957	0	0	0	0	0	N	-1	9	12	1	0	0	55	
11N/7E-10P1	R. E. and Huby Horton	Irrigation	At pump	Estimated	1957	0	0	0	0	0	ı	t	1	0	0	0	0	m	
11N/7E-11C1	John E. Soyington	Irrigation 5/16/57 - 9/16/57 and stockwatering	At pump	Pump test and power records	1957	0	0	0	0	m	6	15	16	100	0	0	0	22	
11N/7E-11C2	John E. Boyington	Irrigation 4/16/57 - 9/16/57 and stockwatering	At pump	Pump test and power records	1957	0	0	0	0	77	12	8	R R	6	0	0	0	8	
1111/75-1761	Antonio and Frances Montero	Irrigetion	At pump	Pump test and power recorde	1958	1	1	i.	ı	m	٧	6	6	9	CY	el	1	35* Re	Reported total is for May - November only.
11N/7E-17M1	Ralph B. and Julis H. Aitken	Irrication and atockwatering	At pump	Pump test and power records	1957	0	0	0	13	35	12	779	79	67	0	0	0	583	
11N/7E-17F1	Susie I. and W. F.	Irrigation and stockwetering	At pump	Pump test and power records	1957 1958	00	00	10	10	~ ~	44	m-4	m m	2 2	10	00	00	15	
11N/7E-19R1	Ouy Schoonderweerd	Irri,ation	At pump	Pump test and power records	1957	00	00	0 0	mo	0 0	44	\$ \$C	75	C 4	00	00	00	22	
11N/7E-20G1	Joe Boiss	Irrication and stockwatering	At sprinklers	Pump test and power records	1957	0	0	н	-4	٥	12	12	Ħ	9	~	0	0	57	
11N/7E-20J1	I. C. Lewis L. E. Wyatt	Irrigation April - September and abookwatering	At pumps	Estimated	1957	1	1		1	1	1	1	t	1	ŧ	1			Reported total is for April - September only.
LIN/7E-20PL	laben J. mahkele	Irrigation	At pump	Pump test and power records	1957	0	0	0	0	г	N	4	4	6	1	1	,	15* Re	Reported total is for 1/1/57 11/8/57 only.
11N/7E-20P2	George L. and Marion E. Robson	Irrigation	At pump	Pump test and power records	1957	00	00	00	00	0 1	23.12	20	4 W	5 **	00	00	00	119	
11N/7E-20P3	Cordon T. and Beth L. Gulbranson	Irrigation	At pump	Pump test and power records	1958	0	0		m	40	10	13	п	40	5	2	0	19	
11N/7E-27L1	Edward J., Boy, and K. Brown	Irigation and stockwatering	At pump	Pump test and power records	1957	0	0	0	~	m	~	6	Ol Car	r-	et .	0	0	38	

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TABLE 7 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

1957-1958

See remorks
 Estimated
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MONTHLY RECORDS OF SURFACE WATER DIVERSIONS YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

1957-1958

3																		
	i		Point of	Method of					Ато	unt dive	rfed, in	Amount diverted, in ocre-feet	eat					
Locotion	Diversion nome or owner	O.S.e.	measurement or estimota	observation and colculation	Yeor	Jon	Feb Mor	or Apr	or May	y Jun	וטט נ	Aug	Sept	Oct	Nov	Dec	Total	Remorks
M D 8 & M					Walf Creek Subunit (Cantinued)	ek Subul	nit (Conti	irrued)										
15N/8E-13F1	O. W. Brewer	Irrigation 5/6/57 - 10/6/57 and etockwatering	Near intake	Current meter and operation record	1957	0	0	0	0	6 12	2 13	£1 .	12	0	0	0	26	1 1
15N/8E-14J1	J. N. Ball	Irrigation and stockwetering	0.3 mile below intake	Staff gage and depth-flow relationship	1957	0	0	0		10** 50	50** 50	\$0 ₅ \$0 ₅	38	0	0	0	198	
15N/8E-15M	N. O. Pingres	Irrigation and stockwatering	200 feet balow intaks	Staff gage and depth-flow relationship	1957	0	0	0	0	0	20*** 02	97 *** 07	56	0	0	0	132	
15N/8E-22E1	D. M. Mefford	Irrigation and stockwatering	O.1 mile below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	× 0	67 **05	67	62	28	0	0	238	
15N/8E-2ZL	Leo Flury	Irrigation	500 feet below intaka	Staff gage and dapth-flow relationship	1957	0	0	0	0	7	10** 10*	0, 10	7	0	0	0	37	Reported amount for July partially estimated.
15N/8E-22M	J. W. Stevenson	Irrigation and atockwatering	100 feet below intake	Staff gags and depth-flow relationship	1957	0	0	0	0 17	170** 290	290** 300	300** 295	337	85	0	0	1,477	
15N/8E-22P1	Leo Plury	Irrigation	150 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	20** 3	30 **	70** 75	92 462	\$	0	0	0	360	Meported amount for July portially estimated.
15N/8E-23N1	Victor Garofalo	Irrigation	1	Staff gage and depth-flow relationship	1957	0	0	0	0	10** 4.01	OE *** 07	30** 16	10	8	18*	0	146	Reported amount for November partially estimated.
15N/8E-27C1	D. N. Mefford	Irrigation	400 feet below intake	Staff gage and depth-flow relationship	1957	0	0	0	0	77 **01	[7 ***07	97 - 47	53	н	0	0	191	Reported amount for July partially setimated.
15N/8E-28A1	Andrew M. Marvey	Irrigation and stockwatering	200 feat below intake	Staff gare and depth-flow relationship	1957	0	0	0	0	0 26	260** 260	260 ** 197	319	50	0	0	1,086	Reported amount for August partially estimated.
16N/8E-24K1	Malcolm Harmill	Irrigation 6/1/57 - 10/1/57 and stockwatering	1	Estimated	1957	0	0	0	0				1	0	0	0	150	
16N/8E-25AL	Ore Lumber Company	Industrial	At reservoir	Estimated from change in reservoir capacity	1957	1		1				1	1	1	1	1	2	
																		ō
1																		
* See remorks	norks																	

* See remorks ** Estimated - Monthly value unknown TABLE B

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS
NEVADA IRRIGATION DISTRICT SYSTEM
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT
1957-1958

		Remorks		Reported amounts include diversions from the three diversion points indicated.	Reported amounts represent diversions from daryon Creak obtained from change in storage in Bowman lake, inflow from Mitton-Bowman Tunnel, and outflow to Bowman-Spailding Conduit and Caryon Creek. Thus releases from storage in Jacken lake, and French Lake island Lake, Thench Lake are included herein.		Reported total is for April - December 1957, only, Amount for April partially estimated. Reported total is for January - March 1958, only.	Reported total is for April - December 1957, only. Reported total is for January - March 1958, only.	Reported total is for April - December 1957, only. Reported total is for January - March 1958, only.	Reported total is for April - December 1957, only. Amount for September 1957 partially estimated. Reported total is for January - March 1958, only.		
		Total		69,527 38,296	85,456	123,259	13,689	20,720*	3,794*	1,512*		
		Dec		391	6,015	12,940 123,259	937	091,1	368			١
		Nov		1,140	2,626	2,740 1	1,325	1,340		24,7		
		Oct		318	1,192	529 13,870 13,590 13,160 13,760 13,090 891 12,420 12,410 12,030 12,990 12,740	1,504	2,150	1492	239		
	-feet	Sep		331	5,867	13,160 1	1,923	3,360	181 -	173*		
	Amount diverted, in acre-feet	Aug		358	7,038	13,5%	1,980	3,590	337	207		
	erted,	lul		1,230	5,500	13,870	1,669 1,838	2,730 3,500	578	109		
	ount div	Unn		8,160	6,279 24,421		1,669	2,730	1,27	128		
	Amo	Моу	nois I	5,980	8,570 20,610 8,181 35,593	824	1,134, 1,379	1,300 1,590	-	88		
2		r Apr	Mountoin Division	8,390 11,380 25,090 5,040 4,060 5,980		8,460 9,340 9,570 10,200			288	% ,		
		b Mor	Mounto		12 9,748 13 9,313		31 12	2,03	2 120			
		Jon Feb		673 14,080	2,951 12,163	8 9 8	- 1466	30 1,150	330 332	235 506		
		Year Jr				57 13,070		58 1,930				
				1957	1958	1958	1957	1957	1957	1957	1	
	Method of			Water stage recorder and depth-flow relationship	Water stage recorder and stage-capacity relationship	water stage recorder and decth-flow relationship	Water stage recorder and depth-flow relationship	Water stage recorder and depth-flow relationship	Water stage recorder and depth-flow relationship	Water stage recorder and depth-flow relationship		
	Point of	measurement or estimate		U.S.G.S. gaging station, "Milton- Bowman Tunnel at outlet", 100 feet below tunnel outlet	U.S.G.S. gazing station, "Bowman- lake near Grani teville"	U.S.G.S. gaging attion, Bowman- Spaulding Canal at intake", 150 feet below intake	2.7 miles below intake	5.3 miles below intake	1.7 miles below intake	300 feet below intake		
		or owner		Milton-Bowman Tunnel	Bosman Lake	Bowman-Spaulding Conduit	Excelsior Ditch	Cascade Canal	Snow Mountain Ditch	Rough and Ready Ditch		rks
		number	MDBAM	19x/12E-12N1 19x/12E-1hF1 19x/12E-1hH1	18%/125-801	13N/12E-8C2	171/85-27#1	134/205-3421	17N/10E-32M1 17N/10E-32M1	16N/9E-7H1		* See remarks

See remarks Nonthly value unknown MONTHLY RECORDS OF SURFACE WATER DIVERSIONS NEVADA IRRIGATION DISTRICT SYSTEM YUBA-BEAR RIVERS HYDROGRAPHIC UNIT 1957-1958

Participation Comparison Continued			Point of	Method	L					Amount diverted,	divert		in ocre-feet	100					
New strates	Locotion	Diversion nome of owner	meosurement or estimote	observation and	Year	Jon							Aug		0ct		ł	ptol	Remorks
Page Comparison Water Intake	MDB&M						Nevodo	Divisio	Con (Con	tinued)	- 1		1		1				
Newtown Ditch Near intake Near intake	16N/9E-10B1	D-S Canal	Near intake	Water stage recorder and depth-flow relationship	1957	533	293		- 3962				,982* 5	879 1,	, 151°,	-037			Reported total is for April - December 1957, only. Amount for August 1957 partially estimated. Reported total is for January - March 1958, only.
The parameter O.1 mile balow intake Marker stage 1957 C. C. 1,390 1,000 1,500* 1,5	16N/8E-12K1	Newtown Ditch	Near intake	Water stage recorder and depth-flow relationship	1957	0	0	53	844	54.8	791	*908	861	141	b18	0			teported amount for July partially estimated.
Chira Ditch Col wile below intake Wisconstar and depth-flow Col wile above road Wisconstar and depth-flow Wisconstar and minimal phical Depth Wisconstar	16N/8E-18M1	Turnel Ditch	0.4 mile below intake	Water stage recorder and depth-flow relationship	1957	184	- 27	- 23		309	98h	967	830	780		283* 248			eported total is for April - December 1957, only. Amounts for November 1957, August, September, and December 1958, partially estimated.
French Revine Ditch	16N/TE-20E1	China Ditch	0.1 mile below intake	Water etage recorder and depth-flow relationship	1957	715	168						-520*1	,530* 1,	A 240 1,	*077			leported total is for April - December 1957, only. Amounts for August, September, and November 1957 partially seti- mated. Reported total is for period January - March 1958, only.
Tarr Ditch	15N/8E-9K1	French Ravins Ditch	50 feet above dis- charge into Tarr Ditch	Staff gage and depth-flow relationship	1957	1	1		*04	917	8	91	Ħ	8	Ħ.	27	0	_	eported total is for April - December only. Amount for April partially estimated.
Hannaman Ditch 0.1 mile below intake Water stage 1957 0 0 0 9 349 185 182* 93* 140* 48 0 0 1,015 Reported amounts for July, and September and depth-flow relationship Record and depth-flow Partially estimated. August, and September partially estimated. Par	15N/8E-10R1	Tarr Diton	0.2 mile below inteke	Water stege recorder and depth-flow relationship	1957	449	351						340 3	,030* 1,		1 258			deported total is for April - December 1957, only. Amounts for September and October 1957 partially estimated. Reported total is for January - March 1958, only.
Rough and Ready 500 feet below Highway Water stage 1958 85° 137 1µ3 138 139 1µ7 180 116 96 1,181 Reported total is for µ/18/58 12/3µ/58 only, Amount for lectronship Ready Ready Relationship Records rad depth-flow Ready Reforted total is for µ/18/58 Reported total is for µ/18/58 Rep	14N/7E-28B1		0.1 mile below intake	Water stage recorder and depth-flow relationship	1957	0	0	0	6	34.9	185	182*	93*	*677	148	0			eported amounts for July, August, and September partially estimated.
Smith Oordon Ditch O.7 mile above road Weter stage between Casey Corner recorder and and Indian Springs relationship	1	Rough and Ready Ditch	500 feet below Highway 20 near Rough and Ready	Wa	1958	1	1		*58	137	14,3	138	139	777		911		1,181,	eported total is for 11/18/58 - 12/31/58 only. Amount for April partially estimated.
	1	Smith Oordon Ditch	0.7 mile above road between Casey Corner and Indian Springs	Ä	1958	1		1		*09 [†] 1	1430	432	483	807	694	18			Reported total is for L/18/56 - 12/31/56 only. Amount for May partially estimated.

See remorks Monthly volue unknown

TABLE 8 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS
NEVADA IRRIGATION DISTRICT SYSTEM
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT
1957-1958

	Remarks		Reported total ie for 14/18/58 - 12/31/58 only.			Reported total ie for April -	December 195/, only. Reported total is for January - March 1958, only.	Reported total is for April - December 1957, only.	Reported total is for 3/13/58 - 12/31/58 only.	Reported total is for April -	Documer 1771, only. Amounted for April and May partially estimated. Reported total is for January - March 1958, only.	Reported total is for 3/4/58 - 12/31/58 only.	Reported total is for 3/1/58 - 12/31/58 only.	Reported total is for 3/1/58 - 12/31/58 only.	
	Total		652* F	77		1,225*	33*	36,160	27,759*	11,448*	*777		*119	633*	
	Dec To		0	0		4	•	1,160 3	980 2.	394 1	•	55	15	18	
	Nov		w	н		ដ		1,270 1	1,130	358	ŧ	8	п	17	
	Oct		108	ដ		8	ı	2,450 1,	2,510 1,	1,250	1	%	66	82	
100	Sep		fi	97		509	1	3,850 2	3,260 2	1,840 1	•	107	101	105	
in ocre-feet	Aug		ä	ន្ទ		219	ŧ	3,840 3	3,510 3	1,750	1	103	107	8	
	Jul		87	9		193	١	3,970	08ग र ग	1,800	1	97	66	88	
Amount diverted,	Jun		102	2		196	1	5,600	1,810	1,520	1	ಪೆ	101	78	
Amoun	May	(pen	101	17		158	•	6,210	002.64		1	48	88	88	
	Apr	(Continued)	21	0	vislon	컘	1	2,180	1,780 1	1,037* 1,499*	4	28	크	38	
	Mor	Division	•	0	Placer Division	•	Э	1,150	665	ı	242	~	2	23	
	Feb	Nevodo	•	0	읪	•	Ħ	1,120	•	*	165	•	•	1	
	Jan	Ž	1	0		1	21	1,410	•	- 1	364	1	1	1	
	Year		1958	1958		1957	1958	1957	1958	1957	1958	1958	1958	1958	
Mes of	observation and		Water stage recorder and depth-flow relationship	Staff gage and depth-flow relationship		Water stage	recorder and depth-flow relationship	Water stage recorder and depth-flow relationship	Water stage recorder and depth-flow relationship	Water stage	recorder and depth-flow relationship	Staff gage and depth-flow relationship	Staff gage and depth-flow relationship	Staff gage and depth-flow relationehip	
Point	measurement or estimate		0.1 mile below intake	At Highway 20		25 feet above control		0.1 mile below intake	200 feet below Magnolia No. 1	Near intake		At end of 15-inch pipe from turnout on ditch 100 feet above road at 13N/6E-1F1	At turnout on ditch 0.5 mile below road at 13N/6E-241	At turnout on ditch O.4 mile above road at Valley View School	
	Diversion name or owner		Bald Hill Ditch	Pet Hill Ditch		Marnolia No. 3		Gold Hill Canal	Gold Hill Canal	Camp Far West Canal Near intake		Camp Far West Canal Lateral	Camp Far West Canal Lateral	Camp Far West Canal Lateral	
	Location	MDB&M	ı	*		13W/8E_2E2		13N/8E-3H1	1	13N/7E-13N1	1	ł	1	1	

See remorks Monthly volue unknown MONTHLY RECORDS OF SURFACE WATER DIVERSIONS NEVADA IRRIGATION DISTRICT SYSTEM YUBA-BEAR RIVERS HYDROGRAPHIC UNIT 1957-1958

Martinate and then colouristic ord Name Sep Mart Mart May Jun Jun May Sep Oct Nov Dec Total	9	and delivery of the second	Point of	Method of						Amount diverted, in ocre-feet	diverte	d, in	ocre-fe	÷					
Pare Par Par Par Pare Par	ocation	Diversion nome or owner	measurement or estimote	observation and	Yeor	Jon												tol	Remorks
Comp. Par. Sect. Canal Voluments on dickshood State Lange State Canal Comp. Par. Sect. Canal State Ca	DB&M					- N	cer Di		(Contir	(penu									
Concept No. Coral 100 feet balow foatak State State State State State State State State State State	1	Camp Far West Canal Lateral	At turnout on ditch 0.3 mile above road at Valley View School	Staff gage and depth-flow relationship	1958	1	1	•	1	77	16	8	н	0	è	0	0	35 Reg	Reported total is for h/5/58 - 12/31/58 onlys
Color Creek Pump At Jump value and geopher flower at Manage and should be should b	1	Camp Far West Canal	400 feet helow road at Valley View School	Water etage recorder and depth-flow relationship	1958	1	1	र्द										3,867" Reg	Reported total is for 3/13/58 12/31/58 only.
Coun Creak Pump At pump test and power 1957 Coun Creak Pump At pump test and power 1957 Coun Creak Pump At pump test and power 1957 Councer Coun	ŧ	Camp Far West Canal Lateral	At turnout on ditch O.2 mile below road at Valley View School	Staff gage and deoth-flow relationehip	1958	1	1	0										2,309 Reg	Reported total 1s for 3/12/58 - 12/31/58 only.
Dectyie South Ditch Authorn Ravine Canal Most intake Authorn Ravine Canal Most intake At outlet of pipe At outlet of pipe	1/6E-22A1	Coon Creek Pump	At pump	Pump test and power records		0	0	0	0					222	0	0		889	
Note: Include Note: Includ	1/68-3601	Doty's South Ditch	100 feet below intake	Water stage recorder and depth-flow relationship	1957	0	0	0							941	0		3,650 Amo	Amount for April partially estimated.
Deer Creek Power- Above forebay Mater stage 1957 1,510 136 6,520 6,380 1,860 3,910 1,200 1,930 2,060 12,082 1958 1,510 1,860 6,090 1,500 3,900 2,520 1,960	ו/זפ-זו/ו	Auburn Ravine Canal	Neer intake	Water stage recorder and depth-flow relationship	1957	377	324	158										œ	Reported total is for April - December 1957, only. Reported total is for Jamuary - March 1958, only.
Deer Creek Power- Above forebay Water etage 1957 1,500 1,600 6,220 6,380 1,080 3,900 1,020 1,000 3,900 2,600 1,000 1,000 4,000 1,000					Pacific	Gos	nd Ele	ctric.	Compan	y to Ne	opon	rrigot	ion Dis	strict					
Bear River at Lake 0.5 mile below Colfax Water stage 1957 Colford Combine Colford	.1	Deer Creek Power- house Discharge	Above forebay	Water stage recorder and depth-flow relationship				9 979					220 lb,					2,082	
Rock Greek North Near intake Sparling meter* 1957 75 109 69 44 129 692 1,679 1,652 805 116 135 7,203 Ditch	1	Bear River at Lake Combie	0.5 mile below Colfax	Water stage recorder and depth-flow relationship	1957	0 0	0 0	0 0	0 0	0 0		olto 3,			377	0 0			Water released near head of Bear Kiver Canal.
Ophir Pipe At outlet of pipe Water stage 1957 188 169 86 193 490 998 2,330 2,320 2,250 760 182 188 recorder and depth-flow 1958 194 170 141 178 865 1,520 2,030 2,340 2,260 2,240 274 209 relationship		Rock Creek North Ditch	Near intake	Sparling meter*	1957	136	109	69											Water stage recorder and depth- flow relationship used when flow exceeded approximately 2 ofe.
	4	Ophir Pipe	At outlet of pipe	Water etage recorder and depth-flow relationship	1957	198	169	98 1/1						0				154°2	,
					1														Ì

See remarks Monthly value unknawn

TABLE 8 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS NEVADA IRRIGATION DISTRICT SYSTEM YUBA-BEAR RIVERS HYDROGRAPHIC UNIT 1958

										ted amounts,	egulatory							ì		
	Remarks									In addition to repor	a coral of 1,522 acre-reev were released as regulatory soill in 1958.									
	Total			181	193	07.7	829	24,198	25,021	7,660	3,594									
	Dec T			9	9	18	37	0	0	0	0									
	No.			9	9	27	58	0	298	0	0									
	0ct	ued)		16	37	S	109	768	2,020	0	0									
1661	Sep	(Contin		56	56	177	124	1,,580	3,210 2	394	138									
Amount diverted, in acre-test	Aug	strict		56	27	122	129	, 050	۲,030 3	2,427	1,472									
160, 10	Jac	tion Di		20	56	127	116	2,060	2 010°5	2,911,	1,9391									ı
DAID .	Out.	Irrigo		56	56	107	98		1,,9820	1,621	88									l
	Moy	Levado		900	56	8	%	0,11,0	ट्यम ्य	59	505									ı
	Apr	ny to f		3	91	S	31	7 0	163 4	239	0									ı
	Mor	Compo		7	9	32	12	0	0	0	0									ı
	Feb	ectric		ن.	۰۵	32	15	0	0	0	0									١
	Con	and E		7	9	38	17	0	0	0	0									۱
	Year	ic Gas		1957	1958	1957	1958	1957	1953	1961	1958					П	-			1
-	and	n Pacif				Ł		Ţ	Д	7	g Q		11		1					
Method af	observation and colculation	Deliveries from Pacific Gas and Electric Company to Nevada Irrigation District (Continued)		Orifice		Sparling meter		Hater stage recorder and	depth-flow relationship	Water stage	depth-flow									
-	tent ote	<u>~</u> ŏ																		
Point of	medsurement or estimote			At intake		At intake		At discharge of energy dissipator		0.6 mile below intake										
O. Co. Straig	or owner			T of	Delivery	Edgewood Purp		South Canal Delivery		South Canal Delivery	TT Tourn 28									Can a second
Location	number			;		;		1		1										Cae remo

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS PACIFIC GAS AND ELECTRIC COMPANY SYSTEM YUBA-BEAR RIVERS HYDROGRAPHIC UNIT 1958

	Remorks							Reported total includes 7,271 acre-feet from 17N/12E-33B1, (Lake Valley Ganal, American River Hydrographic Unit.)			Reported amounts for May and November partially estimated.
Amount diverted, in acre-feet	Jan Feb Mar Apr May Jun Jui Aug Sep Oct Nov Dec Total	Power Systems	38,500 33,300 37,300 36,100 37,000 37,900 32,200 17,900 8,000 21,300 14,600 350,320	31,400 28,300 11,100 30,300 28,600 27,200 27,500 26,800 11,700 6,520 18,800 13,300 284,520	47,000 41,100 46,500 44,600 45,900 44,200 47,300 45,900 38,800 24,000 16,700 24,000 466,000		2,450 5,480 6,920 7,070 4,530 7,090 6,670 6,270 6,820 6,480 3,040 2,860 65,690	7-if miles below intake Weter stage recorder 26,500 24,300 26,900 23,500 27,400 20,500 27,900 27,900 27,900 27,900 27,900 27,900 37,900 305,400* Reported total includes 7,271 acre-fest from 17K/12E-33B1 and depth-flow relationship (Lake Valley Ganal, American River Hydrographic Unit.)	(See Table of Imports and Exports)	20,700 27,600 30,700 30,300 31,400 29,100 27,900 27,500 27,500 27,500 25,600 16,800 322,600	Water stage recorder 26,100 20,500 18,600 19,600 27,100 26,300 27,300 27,500 26,800 27,700 26,000 19,100 292,700 Re and depth-flow relationship
Method of	observation and calculation		Renorted kilowatt output	Reported McLowatt output	Reported Klowatt output		Weter stage recorder and depth-flow relationship	Weter stage recorder and depth-flow relationship		Reported Kilowatt output	Water stage recorder and depth-flow relationship
Point of	measurement or estimate		Powerhouse	Powerhouse	Powerhouse		1.0 mile below intake	7.4 miles below intake	ţ	Рометноизе	Near intake
\vdash	Location Diversion name number or owner		NORTH YUBA RIVER SYSTEM 18N/7E-2LD1 Bullards Bar Powerhouse	18N/7E-25F1 Colgate Tunnel	16N/6E-14Q1 Narrows Powerhouse	SOUTH YUBA AND BEAR RIVERS SYSTEM	17%/128-20JI South Iuba Canal	17W/12E-20H1 Drum Canal	17N/12E-33B1 Lake Valley Cenal (American River Hydro- grachic Unit)	16N/11E-17El Dutch Flat Tunnel	JSN/95-22Q1 Bear River Canal

TABLE 9 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS PACIFIC GAS AND ELECTRIC COMPANY SYSTEM YUBA-BEAR RIVERS HYDROGRAPHIC UNIT 1958

or owner	The Ballena	observation and					Amount	divert	d, in	Amount diverted, in acre-feet	+				8
	measurement ar estimate	calculation	Jon	Feb	Mar A	Apr M	May J	Jub nub	l Aug	das 6	p 0ct	Nov) Dec	Total	Remorks
SOUTH YUBA AND BEAR RIVERS SYSTEM (Continued)	(Continued)			Power	Power Systems (Continued)	is (Con	finued)								
Bear River Canal	Above Halsey Forebay	Water stage recorder 26,300 21,400 19,200 19,800 27,100 25,700 26,600 26,400 end depth-flow relationship	26,300 21	, 4co 19,	200 19,8	800 27,1	100 25,7	00 26,6	oð 26,4	x 26,e	26,3	00 25,9	00 19,50	26,000 26,300 25,900 19,500 290,200	Reported amounts for July and August partially estimated.
Dutch Ravine Cenal Spill	At intake	Staff gage and depth-flow relationship	弩	541	0	0	0	0	0	0	0	料	13	0 224	ly Point of spill located 0.2 mile below intake from South Canal.
South Canal Spill to American Fiver	;	•	(See Teble of Imports end Exports)	e of Imp	orts end	d Export	£3								Export to American Biver
				Ploc	Plocer Woter System	er Sys	E								
17N/11E-36D1 30ardman Canal	Near intake	Water stage recorder 1,650 and depth-flow relationship	1,650 1	1,750 2,080	080	0	345 1,700		2,150 1,680		1,620 1,260		011,110	16,003	8
Pitman Ravine Flume	At intake	Staff gage and depth-flow relationship	•	1		1	293	75	W.	45	77	9	18 15		170* Reported total 1s for 5/1/58 -
Jon/liE-31C1 Towle Canal (American Atver Hydro-graonic Unit)	1	ţ	(See Table of Imports and Exports)	e of Imp	orts en	d Export	(63								
16N/105-35J1 Pulp Mill Canal (American River Hydro- graohic Unit	ì	ı	(See Table of Imports and Exports)	e of Imp	orts and	d Expor	(83								
Boardman Canal	Near Applegate	Water stage recorder and depth-flow relationship	Ягл	842	881 1,1	1,130 9	992 9	962 9	938 8	853 7	754 5	2715	642 782	9,848	σ ₂
Caperton Canal	At intake	Water stage recorder and depth-flow relationship	309*	155	250 2	298 8	895 1,050		1,210 1,230	30 1,090		779 145	451* 392		8,109 Reported amounts for January and November partially estimated.
Caperton Canal	O.5 mile above Caperton Reservoir	Water stage recorder and depth-flow relationship	•	•	35	26	23 2	252 3	375 14	103	338 3	358 21	24.1 186		2,353* Reported total is for 3/13/58 - 12/31/58 only.
Boardman Canal	Above McCrary Reservoir	Water stage recorder and depth-flow relationship	615	578	909	। ।।	1,180 1,300		1,470 1,590		1,580 1,110		169 653	11,822	0

* See remarks * * Estimated — Manthly value anknown TABLE 9 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS PACIFIC GAS AND ELECTRIC COMPANY SYSTEM YUBA-BEAR RIVERS HYDROGRAPHIC UNIT 1958

Tail opill from Boardman Canal. Reported amounts for February and March partially estimated. Transfer from Bear River Canal via Ragedale Tunnel Canal Transfer from South Canal to Boardman Canal Export to American River. Trensfer from South Canal Remorks 2,280 1,075 23,197 28,130 1,619 21,651 Total 210 1,520 1,220 164 3,070 2,080 1,240 1,080 Dec 2,350 1,960 281 1,676 176 368 Nov 274 155 826 2,076 ő 3,150 223 2,927 228 *****25 Sep Amount diverted, in ocre-feet 3,780 3,550 3,510 124 267 630 Aug Power System Transfers to Plocer Water System 3,980 3° 94 194 282 593 3 946 2,520 3,130 3,560 3,500 Jun 271 1468 Placer Water System (Continued) 2,970 324 2,646 216 Moy 252 See Table of Imports and Exports 1,160 122 28 Apr 148 1,280 116 698 Mo 11/1 1,200 0 593 Feb 1,220 77 26 280 Jon Water stage recorder and depth-flow relationship rge from South Canal Method of observation and colculation Not recha O.t mile below South Canal O.1 mile above South Canal O.3 mile below South Canal Above Bowman Feeder Canal Boardman Canal Spill At point of spill to Regulator measurement or estimate Point of Drum Forebay Release to Canyon Creek Dutch Ravine Canal Diversion nome Aagsdale Tunnel or owner Boardman Canal Location ŧ i

+ See remarks + Estimoted - Monthly volue unknown

Index to Surface Water Diversions

For convenience of the reader, an alphabetical index of diversion owners and diversion names, along with the subunit location of each diversion and reference to map and page numbers on which data concerning each appears, is shown on Table 15 at the end of this chapter.

Imports and Exports

Imports

Imports of surface water to the unit consist of five diversions from adjacent watersheds for use in the Yuba-Bear Rivers Hydrographic Unit. They are Lake Valley Canal, Pulp Mill Canal, and Towle Canal, all owned by Pacific Gas and Electric Company and diverting from the American River watershed; and Bean Ditch and Oroville-Wyandotte Canal, diverting from the Feather River watershed.

Lake Valley Canal diverts from the North Fork of
North Fork American River to supplement the Drum Canal,
while the Pulp Mill Canal and the Towle Canal divert from
Canyon Creek, which is a tributary to the North Fork American
River, to supplement the Boardman Canal.

Bean Ditch diverts from Sly Creek for irrigation of 80 acres and for supply to the community of Strawberry Valley.

Oroville-Wyandotte Irrigation District's Oroville-Wyandotte Canal diverts from Lost Creek and passes through the Yuba-Bear Rivers Hydrographic Unit, but its primary use is in the Feather River watershed. The only service from the ditch in the unit is to the Sacramento Box and Lumber Company mill at Woodleaf.

Exports

Five diversions in the Yuba-Bear Rivers Hydrographic Unit divert water from the unit for uses in the American River and Feather River watersheds and the Sacramento Valley floor.

Pacific Gas and Electric Company's Boardman and Bear River Canals export portions of their supplies to the American River watershed and the Sacramento Valley floor for irrigation, domestic, and municipal uses, and the excess is released to Folsom Reservoir on the American River. The areas served by these diversions outside the unit extend along the southern hydrographic unit boundary from the Dutch Flat area to Roseville. The primary area irrigated is in the American River watershed to the south of Auburn. That portion of the City of Roseville outside of the Yuba-Bear Rivers Hydrographic Unit is the principal municipal service area outside the unit. The amount exported by these diversions in 1958 was about 174,300 acre-feet, of which a large portion was spilled to Folsom Reservoir.

Camp Far West Reservoir stores water on the Bear River for supply to Camp Far West Irrigation District on the Sacramento Valley floor.

Diversion 17N/6E-4Hl, owned by Frank Carmichael, diverts water from Dry Creek for use in the Feather River watershed, on the Sacramento Valley floor, and in the Yuba-Bear Rivers Hydrographic Unit. During the irrigation season April through October, water is exported to the Feather River and Sacramento Valley areas for irrigation purposes. During

the period November through March, water is released from the diversion to Tennessee Creek in the Feather River area from which it is delivered to the Browns Valley Irrigation District by rediversion to the Browns Valley Ditch. Part of this water is used in the hydrographic unit and the remainder is exported to the Sacramento Valley floor. The water delivered to the district is in exchange for water supplied by the district to Frank Carmichael for use on the Sacramento Valley floor during the irrigation season.

Browns Valley Ditch serves areas in the Feather River watershed and the Sacramento Valley floor within the Browns Valley Irrigation District principally for irrigation, domestic uses, and stockwatering. Of the 20,036 acre-feet of water diverted during the period of measurement in 1957, 4,882 acre-feet were exported.

In years when surplus water is available to Nevada Irrigation District in Placer County, portions of such water are released down Auburn Ravine for sale to users on the Sacramento Valley floor. A total of 11,220 acre-feet of such water was sold in 1958.

For records of measured quantities of water exported to other hydrographic units, or imported to the unit, see Table 10. Locations of points of import and export are designated on Plate 2.

MONTHLY RECORDS OF IMPORTS AND EXPORTS
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT
1957-1958

	Oct Nov Dec Total		1700 1350 97 7,271	9 0 0 298		009,05 0821 0511 0551 0821 0,010	0 0 0 758 Canal not in use May - December due to elida.		59 990 125 1,942	00 32° 1070° 16,591 Reported anounts for Movember and December partially setLated.	61 108 95 2,625		349 260 171 3,274 Delivery to the City of Reservilla at the Reservilla regulator. Records obtained from the City of Reservilla.	286 Dalivery to Southern Pacific Company at Rosertile registers. Records obtained from Southern Pacific Company.	20 18 21 263 Lateral of ITM/LE-4611 (Boardman Canal), Delivery to municipal gayan for City of Colfax, Records	obtained from City of Colfex.
Amount diverted, in ocre-feet	Jun Jul Aug Sep		0 0 811, 1215 1600 o	51 94 94 51 52		1950	0		0 0 0 85	u 1720 1850 1550 1500 1200	82 100 90 90		372 397 4,83 4,60	1	21 38 43 25	
Amou	Yeor Jan Feb Mor Apr Moy		1958 0 0 0 0	1957 22 20 22 21 2		1958 1910 2180 2460 1680 1390 1860	1958 213 261 277 7		1958 0 0 80 390 250	1958 1940 2060 2180 685 804	System 183 381 477 622 336		1958 11,8 11,1 11,3 158 192	1958	1958 14 14 13 15 21	
boden Method	e de	Importe	0.8 mile below Water stage intake recorder and deoth-flow relationship	O.1 mile above Estimated area of use		O.4 mile below Water stage intake recorder and denth-flow	relationship Nater stage intake the depth-flow relationship		Near forebay Staff gage and death-flow relationship	Canyon Creek recorder and depth-flow relationship	Net Import to Boardman Canal	Esporte	(*)	(*) Estimated	(a)	
l ocotion number	point of import		17%/12E-30R	20N/85-290		16N/11F-31C	16N/10E-35J		16K/11E-16L	16N/11E-16H			•	•	15N/9E-27R	117
Hydrogen sidness	imported from or exported to		American River	Feather River		American River	American River		American River	American River			Sacramento Valley Floor	Sacramento Valley Floor	American River	
	Locotion Source		17N/12E-33B1 North Fork of Rorth Fork American River	21M/8E-34P1 Sly Creek	fie Gae and Electric Company	Caryon Creek: 16W/11E-21E1 Caryon Creek	16N/10E-36q1 Caryon Creek	nyon Creeks	(Drus Caral)	17M/11E-36D1 Beer River			17M/11E-36D1 Bear River	17N/11E-5601 Bear River	(*) Bear River	
-	Diversion nome Local		ake Valley Canal 17N/12 Pacific Gas and Electric Company	Soper-Wheeler Company	bardman Cenal System Pacific Gee	Diversione from Canyon Creek	ulp Hill Cenal 16N/M	Lese Discharges to Caryon Creeks	(Drum Canal)	oardman Canal 17M/L:			Oardman Canal 17N/L: Facific Gas and Electric Company	Oardman Canal 17N/1: Pacific Ose and Electric Company	olfax Pipeline" Parific Dae and Electric Company	

TABLE 10 (Confinued)
MONTHLY RECORDS OF IMPORTS AND EXPORTS
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

1957-1958

					70	Mathed				A	mount	Amount diverted,	ni , ba	in ocre-feat	feet				_	
Diversion nome or owner	Locotion	Source	Hydrographic unit imported from or exported to	point of import	measurement or estimote	observation and calculation	Year	Jan Fe	Feb Mar	r Apr	Моу	Jun	lab	Aug	J des	Oct N	Nov Dec		Totol	Remorks
						Exports (Continued)	(penul													
Shirland Canal* Pacific Owe and Electric Company	*	Bear River	American River	12N/8E-15P	Newr intake	Water stage recorder and depth-flow relationship	1958	132	122 13	137* 155	7777	551	575	574	547	320	150 1	भ	3,874 1	3,874 Laterel of 178/118-3601 (Boardman Canal), Reported anount for March partially estimated,
Parlord Canal* Pacific Gas and Electric Company	3	Bear River	American Siver	12N/3E-200	At intake	Water stage recorder and depth-flow relationship	1958	TK	a	36 28	38	22	53	\$6	r r	917	17	&	1 084	[Ateral of 17W/11E-36D1 (Boardman Canal). Reported amount for January partially estimated.
fouth Canal* Pacific Gas and Electric Company	€	Bear River	American River	12N/85-32P	0./ mile below Boardman Canal	Water stage recorder and depth-flow relationship	1958 2	21600 18300 16700 17400 12500	300 1670	00 1740	0 12500	91,70	6720	07109	9120 13400 19800	81 00¶		11,600 165,650	3 *299°5	Extension of 15N/95-22q1 (Bear River Canal). Reported total was spill to North Fork American River.
Monte Rio Pipe* Pacific Gas and Electric Company	⊙	Bear River	American River	11N/82-58	At intake	Staff gage and denth-flow relationship	1958	•	8	21 17	7 42	65	89	8	211	37	n	1.8	1707	[ateral of 17N/11E-36D] [Boardman Caral], Raported total 1s for 2/1/58 - 12/31/58 only.
ovada Irigation District	•	Augmented flow of Auburn Mavine	Sacramento Valley Floor	12N/6E-15N	Below Hemphill Ditch Diversion	Water stage recorder and depth flow relationship	1958	0	0	0	0 3020	5220	2860	2710	017	o	0	0	11,220 R	o Reported amounts represent the portions of the flow in Auburn Rarine delivered by Wowada Irrigation Sistrice to users outside the district to
Jone Rice Ditch* Lows Rice Ditch* Browns Valley Irrigation District	*	North Inha Alver	Feather River	17W/5E-22F	At intake	Staff gage and depth-flow relationship	1957	,		- 24.1	7 1175	617	116	1733	361	ដា	151	47	2,650 1	laterals of 17W/TE-16H1 (Browns Valley Oftch). Raported total is for 3/27/57 - 12/33/57 only.
Olive Hill Ditch* Browns Valley Irrigation District	€	North Tubs River	Sacramento Valley Floor	16N/5B-4B	At intake	Staff gage and depth-flow relationship	1957	•	1	24 148	8 295	569	274	560	201	88	&	59	1,681	Lateral of 17N/TE-16H1 (Browns Valley Oitch). Reported total 16 for 3/27/57 - 12/31/57 only.
Browns Valley Ottoh 173/78-16H1 Browns Valley Irrigation Olstrict	17N/78-16H1	North Tube River	Sacramento Valley Floor	16N/5E-200	Near Mighway 20	Staff gage and depth-flow relationship	1957	۰	0	0	\$	69		8	젒	88	8	8	K.	
Frank Carmichael	17N/6E-4H1	Dry Creek	Faither River and Sacramento Valley Floor	18N/6E-8M	3.0 milee below intake	Staff gage and depth-flow relationship	1957	•			'		136*	1,172	8 8	363	391	230	2,150	Reported total is for 7/1/57 - 12/31/57, Amount for July partially setimated.
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	Paint of	Method of						mount	Amount diverted,		in acre-feet	± 6					
Or owner	measurement or estimate	abservation and colculation	Year	Jan	Feb	Mor	Apr	Мау	Jun	lul	Aug	Sep	Oct	Nov	Dec	Total	Remarks
Antelope Creek	0.3 mile below	Water stage	1957	ı	1	1	•	868	268	17	168	392	1087	839	822	1,545*	4,545* Reported total if for May -
וופסד יווספסארדים	north of Roseville		1958	1906	3594	2117*	1999*	849	701	577	1,75	1,87	948	786	572	15,014	December 1957, only. Amounts for March and April 1958, are partially estimated.
Tributary to Coon	O.l mile below	Staff gage and	1957	1	1	ı	r	82	25	-21	1	23	97	10	1	185#	Reported total is for 5/1/57 -
Lincoln	4.2 miles north of Lincoln	relationship	1958	1	1	1	295	17	97	00	0	н	7/	15	ı	615*	11/30/56 only. Recorted total is for h/1/58 -
Markham Ravine	At county road	Staff gage and	1957	1	ı	1	t	57	56	8	53	98	217	186	•	615* F	eported total is for 5/1/57 -
inear principal	Highway 99E	relationship	1958	1	1	1	1	32	E	3	175	641	143	71/6	83	\$85*	582* Reported total le for period 5/1/58 - 12/31/58 only.
Miners Ravine near Roseville	500 feet below Highway 40	Water stage recorder and	1957	1	*	r	283	श्रीत	260	596*	1433	909	1579	1572	2347	10,121*	Reported total is for 14/25/57 - 12/31/57 only. Amount for
		depth-Ilow relationship	1958	4370	1	1	3141*	1640	1210	5415	580	580	0111	1630	1540	16,046*	July partially estimated. Reported total is for 1/1/58 - 1/31/58 and 1/1/58 - 12/31/58 only. Amount for April partially estimated.
Nigger Greek near Penn Valley	At Bridgeport Road	Staff gage and depth-flow relationship	1958	ı	r	,	28	186	180	121	111	121	160	92	89	1,057* R	Reported total is for h/25/58 - 12/31/58 only.
Tributary to	At Highway 99E,	Staff gage and	1957	ı	ı	ŧ	ı	1	12	10	N	00	9	15	ı	*95	Reported total is for 5/20/57 -
near Lincoln	of Lincoln		1958	1	•	,	•	٥	9	60	0	12	ξī	12	~	*29	12/31/58 only. 12/31/58 only.
Squirrel Greek near Penn Valley	Squirrel Creek near 0,5 mile below Penn Valley Bridgeport Road	Water stage recorder and depth-flow relationship	1958	1	1	1	532	823	511	गूर	189	251	ή ₈ ή	423	421	3,848* R	Reported total is for 1419/58 - 12/31/58 only.
Squirrel Creek near 0.7 mile south- Sunset View west of Sunse View, above Rough and Rea	vest of Sunset View, above Rough and Ready Ditch	Staff gage and depth-flow relationship	1958	1	1	ŧ	3	193	132	8	%	OŤ	511	38	76	611* R	Reported total 1s for 14/25/58 = 12/31/58 only.
* See remorks																	

Monthly value unknown

Consumptive Use

Consumptive use is defined as the quantity of water transpired by plants, retained in plant tissue, and evaporated from the plants and surrounding land and water surfaces. This also includes water similarly consumed by urban and nonvegetative types of land use. In the Yuba-Bear Rivers Hydrographic Unit, the largest quantity of water diverted from surface streams is utilized for the production of hydroelectric power, but by far the largest consumptive use of water is by irrigated agriculture Often the consumptive use of electric power generation is negligible, but, in this unit, evaporation from the large storage reservoirs and extensive canal systems used jointly for power generation and irrigation is significant. In this bulletin, however, no attempt was made to determine consumptive use of wat for uses other than those associated with vegetated areas.

The total annual consumptive use of applied water for irrigation in the Yuba-Bear Rivers Hydrographic Unit is estimate to have been 81,000 acre-feet in 1957 and 1958. This is estimate from the cropping pattern, which was assumed to be the same in 1958 as was surveyed in 1957, and the unit crop consumptive use of applied water values published in State Water Resources Board Bulletin No. 2.

A consumptive use study was conducted in the hydrographic unit to determine the relationship of consumptive use of applied irrigation water to depletion of water supply. This study is described in the following paragraphs.

Consumptive Use Study

The availability of recorded diversion measurements and the hydrologic characteristics of the foothill lands in the Yuba-Bear Rivers Hydrographic Unit offered an unusual opportunity to directly determine the consumptive use of applied water plus incidental consumptive losses, or total depletion of water supply, in several areas. The determination of this total in each of three areas comprised a consumptive use study conducted in 1958. In each study area the total water consumed by the irrigated crops and by other consumptive losses which occurred in the process of delivering water to primary users, concentrating return flows, and rediverting water to secondary users was considered to be equal to the difference between measured inflow and outflow from each area during the period of measurement. A prime factor which made such determinations possible is that there is little or no ground water storage or usage in the foothill areas of the unit. The information resulting from this study will be of value when estimating future water requirements for this and similar foothill areas.

Three predominantly agricultural areas within the unit were chosen for the consumptive use study. These areas, as depicted on Plate 6 entitled "Consumptive Use Study Areas, Yuba-Bear Rivers Hydrographic Unit", are Auburn Ravine-Coon Creek Study Area, Rocklin Study Area, and Squirrel Creek Study Area. In each area water is imported by canals and distributed to the water users, and return flow to natural stream channels is rediverted at several locations for re-use. In the case of the Auburn Ravine-Coon Creek and Rocklin Study Areas, some water is transported through the areas

without use for irrigation. In the summer months streams within the areas are sustained entirely by imported water. Water entering and leaving each area was measured in 1958. By subtracting the outflow from the inflow for each area the portion of water entering the area which was consumed within the area was determined

Flow measurements were made during the principal irrigation period, June through September, for each area except the Auburn Ravine-Coon Creek Study Area where no measurements were made in September. Results of the measurements are shown in Tables 12, 13, and 14.

The total June through September consumptive use of applied water by irrigated crops within each of the three study areas was estimated. These estimates were made by reducing seasonal unit crop consumptive use of applied water values that were published in State Water Resources Board Bulletin No. 2 by 19 percent to account for the partial season period of analysis. The value of 19 percent was determined by utilizing monthly atmometer measurements of evaporation obtained in the area in 1958. The estimated value of consumptive use of applied water by crops is compared with the measured values of total depletion in each area in the following paragraphs. On the average, in the three study areas 63 percent of the total depletion was accounted for by the consumptive use of water by crops. This comparison is an indication of incidental losses that may be incurred in irrigation developments in foothill areas having cultural and irrigation practices similar to those in the areas considered in this study.

Descriptions of the three study areas and calculations of consumptive use are presented in the following paragraphs.

Auburn Ravine-Coon Creek Study Area. Auburn Ravine-Coon Creek Study Area, which comprises the Auburn Ravine and Coon Creek Subunits, has an area of approximately 78,100 acres. These lands range from valley lands north of Lincoln, at an elevation of about 100 feet, to steeply sloping lands near Applegate, at elevations up to 2,100 feet.

The water consumed in this area during the period June through August 1958 was determined from measurements to be 33,200 acre-feet as shown in Table 12. It was estimated, from amounts consumed in the other study areas and from the 1958 atmometer data, that an additional 10,400 acre-feet of water was consumed in September 1958. Thus the supply to the area was depleted by an estimated 43,600 acre-feet of water during the period June through September.

The area under irrigation within the study area was approximately 17,830 acres. The total June through September 1958 estimated consumptive use of applied water by crops on this acreage was 27,400 acre-feet. The crop distribution and the estimated consumptive use by individual crops within the area are tabulated below:

<u>Crop</u>	Area <u>in acres</u>	Estimated consumptive use of applied water by crops June through September 1958 Unit value: Total in feet: in acre-feet
Pasture Orchard Hay (alfalfa)	11,000 6,470 140	1.8 19,800 1.1 7,100 1.8 300
Truck, berry, and grain Field	120 100	0.6 0.8 100
	17,830	27,400

The ratio of the quantity of consumptive use of applied water by crops (27,400 acre-feet) to the total depletion (43,600 acre-feet) indicates that about 63 percent of the total water depleted is consumed by the irrigated crops.

Rocklin Study Area. Rocklin Study Area, with the same boundaries as Rocklin Subunit, has a total area of about 36,700 acres consisting primarily of rolling foothills. As shown in Table 13, approximately 21,400 acre-feet of the water supplied to this area during the period June through September 1958 was depleted. The irrigated area which received water was about 11,070 acres. The total June through September 1958 estimated consumptive use of applied water by crops on this acreage was 13,700 acre-feet. The estimated consumptive use by the individual crops, and the crop distribution within the area are tabulated below:

Crop	Area <u>in acres</u>	use of applied	
Pasture Orchard Hay (alfalfa) Truck and berry Field	2,030 8,820 90 60 70	1.8 1.1 1.8 0.6 0.8	3,700 9,700 200 40
	11,070		13,700

The ratio of the quantity of consumptive use of applied water by crops (13,700 acre-feet) to the total depletion (21,400 acre-feet) indicates that about 64 percent of the total water depleted is consumed by the irrigated crops.

Squirrel Creek Study Area. The Squirrel Creek Study
Area contains a portion of the Squirrel Creek drainage located
west of Grass Valley. The topography within this area is primarily
of a rolling foothill nature, but the area contains some steeply
sloping lands.

As shown in Table 14, the supply to the area for the period June through September 1958 was depleted by approximately 4,000 acre-feet. The area under irrigation within the study area was approximately 1,400 acres, which consisted almost entirely of pasture lands.

The estimated June through September 1958 consumptive use of applied water by crops on the 1,400 acres of land is 1.8 acre-feet per acre or 2,500 acre-feet. The ratio of this quantity to the total depletion (4,000 acre-feet) indicates that about 63 percent of the total water depleted is consumed by the irrigated crops.

TABLE 12

CALCULATION OF TOTAL CONSUMPTIVE USE OF APPLIED WATER FOR IRRIGATION IN AUBURN RAVINE-COON CREEK STUDY AREA YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (In acre-feet) June-August 1958

Item	: June	: July	: August	: Total
Inflow				
Boardman Canal near Applegate	962	938	853	2,753
Bear River Canal above Halsey Forebay	25,700	26,600	24,400	76,700
Ragsdale Tunnel above Bowman Feeder Canal	468	593	630	1,691
Gold Hill Canal near Magnolia No. 1	4,810	4,480	3,510	12,800
Caperton Canal near head	1,050	1,210	1,230	3,490
Total.	32,990	33,821	30,623	97,434
Outflow				
Boardman Canal above McCrary Reservoir	1,300	1,470	1,590	4,360
South Canal above Boardman Canal recharge	12,970	10,670	9,696	33,336
Shirland Canal near head	551	575	574	1,700
Dutch Ravine Canal near Newcastle	3,130	3,550	3,510	10,190
Camp Far West Ditch near Valley View School (five locations)	495	495	531	1,521
Coon Creek at Highway 99E	1,178	424	387	1,989
Ewing outflow near Highway 99E	10	8	0	18
Markham Ravine near Lincoln	43	44	42	129
Auburn Ravine at Lincoln	2,777	3,477	3,257	9,513
Caperton Canal near Lincoln	252	375	403	1,030
Lincoln Canal outflow at Highway 99E	6	8	0	11
Correction for Auburn consumptive use	95	150	162	407
Total	22,807	21,246	20,152	64,205
Inflow less outflow	10,183	12,575	10,471	33,229
Approximate total, June-August consumptive use of applied water for irrigation				33,200

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TABLE 13

CALCULATION OF TOTAL CONSUMPTIVE USE OF APPLIED WATER FOR IRRIGATION IN ROCKLIN STUDY AREA YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (In acre-feet) June-September 1958

Item	_	July	: :August :	Sep-	
	Inflow	· oury	magaso .	VOINDOI .	
South Canal above Boardman	TILLION				
Canal recharge	12,970	10,670	9,696	12,047	45,383
Boardman Canal above McCrary Reservoir	1,300	1,470	1,590	1,580	5,940
Dutch Ravine Canal near Newcastle	3,130	3,550	3,510	3,070	13,260
Total	17,400	15,690	14,796	16,697	64,583
	Outflow				
Gaylord Canal near head	52	53	65	71	241
South Canal below Boardman Canal recharge	9,470	6,720	6,040	9,120	31,350
Monte Rio Pipe near head	62	68	60	42	232
Antelope Creek near Roseville	704	577	475	487	2,243
Miners Ravine near Roseville	1,210	545	280	580	2,615
Caperton Canal near head	1,050	1,210	1,230	1,090	4,580
Deliveries to the City of Roseville and Southern Pacific					
Company from the Roseville Regulator	402	427	513	490	1,832
Correction for domestic consumptive use	17	24	26	17	84
Total	12,967	9,624	8,689	11,897	43,177
Inflow less outflow	4,433	6,066	6,107	4,800	21,406
Approximate total June- September consumptive use of applied water for irrigation					21,400

TABLE 14

CALCULATION OF TOTAL CONSUMPTIVE USE OF APPLIED WATER FOR IRRIGATION IN SQUIRREL CREEK STUDY AREA YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (In acre-feet) June-September 1958

Item	: June	: July	: August	: Sep- : tember	: Total
	Inflow				
Smith Gordon Ditch near Indian Springs	430	432	483	408	1,753
Tunnel Ditch near head	999	926	999	984	3,908
Rough and Ready Ditch near Bitney Corner	143	138	139	147	567
Squirrel Creek near Rough and Ready	132	50		40	258
Total	1,704	1,546	1,657	1,579	6,486
	Outflow				
Pet Hill Ditch at Highway 20	2	10	10	16	38
Van Tiger Ditch at Bridgeport Road	62	76	68	57	263
Bald Hill Ditch near Indian Springs	102	87	112	113	424
Smith Gordon Ditch Outflow No. 1 near Indian Springs	1	1	2	1	5
Smith Gordon Ditch Outflow No. 2 near Indian Springs	5	5	5	5	20
Squirrel Creek near Bridgeport Road	511	21/1	189	251	1,165
Nigger Creek at Bridgeport Road	180	121	117	121	539
Total	863	514	503	564	2,444
Inflow less outflow	841	1,032	1,154	1,015	4,042
Approximate total June-September consumptive use of applied wate for irrigation	r				4,000

TABLE 15
INDEX OF SURFACE WATER DIVERSIONS
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT

Diversion name or owner	Location	Subunit	References		
	number	0000	Plate 2 sheet na.	Page nos. of text and appendixes	
Aitken, Ralph B. and Julia H.	11N/7E-17M1	Rocklin	23	73, 93, 157, C-16	
Alleghany Water District	19N/10E-34B1 19N/10E-34N1	Alleghany	7	C-29 29, 33, b1, C-29	
Allen, Tom E.	12N/7E-19P1	Orchard-Pleasant Grove Creeks	22	70, 156, C-23	
Allen, Walter	13N/7E-32H1 13N/7E-32H2 13N/7E-32K1	Coon Creek Coon Creek Coon Creek	21 21 21	51, 88, 151 51, 88, 151 51, 88, 151	
Alta Powerhouse Afterbay	See Pacific Ga	s and Electric Company			
Amaral, A. M. Nishimoto, Iwami	12N/8E-17K1 12N/8E-17K2	Auburn Ravine Auburn Ravine	22 22	hli, 149, C-13 hli, 149	
Amodei, S. (Mrs.)	See Hemphill D	itch			
Anderson, Albert	20N/12E-22R1	Sierra City	5	76, 159, C-21	
Anderson, Vincent H.	12N/7E-2Q1 12N/7E-12D1	Coon Creek Coon Creek	22 22	49, 87, 150 49, 87, 151	
Arbogast Brothers	17N/9E-35E1	French Corral	13	65, 90, 154	
Auburn Ravine Canal	See Nevada Irr	igation District			
Bachels, Andrew	19N/10E-8C1	Goodyears Bar	7	68, 91	
Bachels, Joseph P.	20N/10E-32L1	Goodyears Bar	4	69, 91, 155, C-21	
Bagdanoff, Peter J.	13N/7E-32Q1	Coon Creek	21	51, 151	
Baker, Fred N.	19N/8E-31G1	Bullards Bar	6	46, 86, 149	
Ball, J. H.	15N/8E-1/J1	Wolf Creek	18	78, 95, 159	
Barton, C. S.	13N/7E-16Q1	Coon Creek	21	50, 87, 151	
Bartsch, Francis J. and Ruth	18N/8E-20Q1	Pike	9	72, 92, 156, C-20	
Bean Ditch	See Soper-Whee	See Soper-Wheeler Company			
Bear River Canal	See Pacific Gas	s and Electric Company			
Bellet, Edward	17N/8E-2J1	French Corral	12	64, 154	
Bellet, Vincent	17N/8E-1N1 17N/8E-1P1	French Corral French Corral	12 12	63, 90, 15h 63, 15h	
Bertoglio, John C.	13N/7E-33H1	Coon Creek	21	51, 152	
Best Mines Company, Inc.	19N/10E-18J1	Goodyears Bar	7	68, 91, C-25	
Beutler, Edwin A.	16N/8E-20M1	Deer Creek	16	54, 153	
Big French Reservoir	See Trubschench	k, Lorin N.			
Black, Cecil and Soledad A.	11N/7E-15D1	Rocklin	23	73, 157, C-27	

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Black, Clarence	15N/7E-25H1	Dry Creek	17	61, 89, 153, C-26	
Blue Lake	See Pacific Ga	s and Electric Company			
Boardman Canal	See Pacific Ga	s and Electric Company			
Boisa, Joe	11N/7E-20G1	Rocklin	23	73, 93, 158, C-16	
Bonnifield, Floyd Hughes Reservoir	12N/6E-14R1	Orchard-Pleasant Grove Creeks	22	70	
Boorinakis, George	12N/8E-3F1	Auburn Ravine	22	43, 85, 148	
Bowman Lake (See Nevada Irr	igation District			
Bowman-Spaulding Conduit	See Nevada Irr	igation District			
Boyington, John E.	lln/7E-11C1 lln/7E-11C2	Rocklin Rocklin	23 23	72, 93, 157 72, 93, 157	
Boy Scouts of America-Marin Council Chubb Lake	17N/12E-22G1	Donner Pass	14	57, C-23	
Brennan, Martha A. (Mrs.)	11N/8E-6Q1	Rocklin	23	75, 158	
Brewer, G. W.	15N/8E-13F1	Wolf Creek	18	78, 95, 159	
Brown, Dwight	11N/8E-18B1	Rocklin	23	75, 94, 158	
Brown, Edward J., Boy, and K.	11N/7E-27L1	Rocklin	23	74, 93, 158, C-1	
Brown, Joe G. and Blanche	19N/9E-20N1 19N/9E-21L1 19N/9E-29A1	Goodyears Bar Goodyears Bar Goodyears Bar	7 7 7	68, C-25 68, C-25 68, C-25	
Brown, Leland H.	16N/8E-14C1	Deer Creek	16	54, 153	
Browns Valley Irrigation District	17N/7E-16H1	Pike	12	11, 33, 71, 106, 1 153, 157, D-4, D-5	
Buck, Ted C.	14N/8E-9L1	Wolf Creek	20	77, 159	
Bullards Bar Reservoir	See Pacific Gas	and Electric Company			
Burda, Bert L.	17N/8E-9Q1 17N/8E-16B1	French Corral French Corral	12 12	64, 90, 154, C-30 64, 154, C-30	
Burris, Burris, Burris, and Hoxworth	17N/5E-27R1	French Dry Creek	12	66, 91, 155	
Butz, George	18N/8E-15R1	Pike	9	71, 92, 156	
Butz, M. C.	See Cunningham	Ditch			
Byers, W. D. and Bertha	12N/6E-12K1	Auburn Ravine	22	42, 148, C-23	
Cal-Ida Lumber Company	19N/9E-6A1 19N/9E-6P1	Goodyears Bar Goodyears Bar	7 7	67, 91, C-20 68, C-20	
California Debris Commission Englebright Reservoir	16N/6E-14P1	French Dry Creek	15	8, 27, 66, C-17, C-19, D-27, D-31	

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Calkins, Earl G.	13N/7E-30R1	Coon Creek	21	51, 88, 151
Callejo, Salvador S.	17N/6E-11E1	French Dry Creek	12	67, 155
Camp Far West Canal	See Nevada Irr	igation District		
Camp Far West Irrigation District Camp Far West Reservoir	14N/6E-21L1	Camp Far West	19	30, 47, 105, C-1; C-19
Camp Far West Reservoir	See Camp Far W	est Irrigation Distric	t	
Camptonville Water Service	18N/8E-1M1	Bullards Bar	9	33, 45, 86
Carlton, Merrill H.	12N/7E-24A1	Auburn Ravine	22	43, 85, 148
Carmichael, Frank	17N/6E-4H1	French Dry Creek	12	39, 66, 105, 108
Carr, John H. Draper, Ervan E.	12N/7E-32N1	Rocklin	22	C=21, D-7 75, 158, C-12
Cascade Canal	See Nevada Irr	igation District		
Casper, Kenneth J.	14N/7E-33C1	Camp Far West	19	47, 87, 150
Cassano, Julius A.	19N/8E-35J1	Bullards Bar	6	46, 86, 149
Castle, Don L. and Lillian D.	13N/8E-26F1	Coon Creek	21	52, 88, 152, C-2
Central Pacific Railroad Company Crystal Lake Lake Angela Lake Mary	17N/12E-24K1 17N/15E-16E1 17N/15E-20A1	Donner Pass Donner Pass Donner Pass	14 14 14	57 58 58
Chamberlain Estate Company	13N/6E-29H1	Coon Creek	21	49, 87, 151
Chase, Ed	20N/10E-20B1	Goodyears Bar	4	68
Childers, Roy D. and Geraldine, et al.	17N/8E-2M1 17N/8E-3A1	Pike Pike	12 12	71, 156 71, 156, C-33
China Ditch	See Nevada Irri	igation District		
Chubb Lake	See Boy Scouts	of America-Marin Coun	cil	
Clay, P. T.	14N/8E_21R1	Wolf Creek	20	78, 9h, 159
Clingan, M. C.	15N/7E-23E1	Dry Creek	17	61
Colgate Tunnel	See Pacific Gas	s and Electric Company		
Comrie, F.	11N/7E-16H1	Rocklin	23	73, 157, C-22
Conley, Frank E.	12N/7E-18D1	Auburn Ravine	22	43, 85, 148
Coombes, Cordelia	18N/10E-31P1	Washington	10	77, 159

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Costa, Martin	19N/7E-18E1	French Dry Creek	6	67, 155	
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Cox, Elmo C.	16N/9E-29M1	Greenhorn Creek	16	69, 92, 155	
Croft, Charles P.	11N/7E-16Q1	Rocklin	23	73	
Crossley, Frank W. and Ora I.	11N/7E-10H1	Rocklin	23	72, 93, 157, C-2	
Crystal Lake	See Central Pa	cific Railroad Company			
Cunningham Ditch Butz, M. C. Cunningham, W. C. (Mrs.)	18N/8E-15A1	Pike	9	71, 92, 156	
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Davies, William L.	17N/9E-28N1	French Corral	13	65, 90, 154	
Davis, Harry M.	17N/9E-34K1	French Corral	13	65, 90, 154	
Day, Alice (Mrs.)	11N/8E-7B1	Rocklin	23	75, 94, 158, C-3	
Deer Creek Reservoir	See Nevada Irrigation District				
Dieterich, J. W. and Nellie E, Varni, Joe	12N/7E-23H1	Auburn Ravine	22	43, 85, 148, C-2	
Dimmler, C. L.	12N/7E-24F1	Auburn Ravine	22	43, 85, 148	
Doty's South Canal	See Nevada Irr	igation District			
Dow, E. L.	17N/8E-4R1	Pike	12	71, 156	
Downey Lake	See California	State Department of Fi	sh and Game	•	
Downieville Public Utility District	20N/10E-14D1 20N/10E-26K1	Goodyears Bar Goodyears Bar	44	68, 91 69, 91	
Draper, Ervan E.	See Carr, John	H.			
Drum Canal	See Pacific Ga	s and Electric Company			
Duckels, Neal W.	16N/5E-12C1 16N/5E-12G1	French Dry Creek French Dry Creek	15 15	65, 90, 15h 66, 90, 155	
Dudley, Louis F.	17N/7E-26F1	French Corral	12	63, 154	
Dutch Flat Tunnel	See Pacific Ga	s and Electric Company			
Elliott, P. W. McCalister, Mary Ann, et al.	21N/10E-36R1 21N/11E-18R1 21N/11E-31C1	Goodyears Bar Goodyears Bar Goodyears Bar	2 3 3	69 69, C-18 69, C-18	
Ellsworth, W. R.	19N/9E-8L1	Goodyears Bar	7	68, 91, C-20	

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Englebright Reservoir	See California	Debris Commission		
Ennor, Jesse	19N/13E-20Al	Alleghany	8	ц1, 1h8, C-12
Enzler, Ralph E.	13N/8E-22E1	Coon Creek	21	52, 152, C-26
Excelsior Ditch	See Nevada Irr	igation District		
Fanini, Jack	12N/8E-4D1 12N/8E-4D2	Auburn Ravine Auburn Ravine	22 22	ևև, 1և8 ևև, 1և8
Farnsworth, F. N.	18N/8E-33M1	Pike	9	72, C-20
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Ferreira, Domingos	12N/7E-3E1	Coon Creek	22	49, 150
Ferreira, Mary G. (Mrs.)	13N/7E-35A1	Coon Creek	21	52, 88, 152, C-3
Ferry, Manuel A. (Jr.)	13N/7E-33E1	Coon Creek	21	51, 151, C-25
Fischer, M. P.	19N/10E-8F1	Goodyears Bar	7	68, 91, C=18
Flury, Leo	15N/8E-22L1 15N/8E-22P1	Wolf Creek Wolf Creek	18 18	79, 95, 160 79, 95, 160
Fordyce Lake	See Pacific Ga	s and Electric Company	,	
Forster, Edward R.	12N/8E-7F2	Coon Creek	22	49, 87, 151
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Fournier, Edward J.	20N/11E-25D1	Sierra City	5	76, 159
French C. C. Turnell, S. I.	16N/5E-10B1	French Dry Creek	15	65, 154, C-22
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Fuller Lake	See Pacific Ga	s and Electric Company	,	
Gallino, Manuel	16N/8E-26G1	Wolf Creek	16	80, 160
Garcia, Joe L.	12N/7E-12H1	Coon Creek	22	49, 87, 151
Carofalo, Victor	15N/8E-23N1	Wolf Creek	1.8	79, 95, 160
Gelhaus, A. F.	15N/9E-1001 15N/9E-1001	Greenhorn Creek Greenhorn Creek	18 18	69, 155 69, 155
Civens, Clint	18N/6E-34Q2	French Dry Creek	9	67, 91, 155
Clenn, Gordon Harris, M. A.	11N/7E-1C1	Rocklin	23	72, 93, 157
Gold Hill Canal	See Nevada Irr	igation District		

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Gooch, David W.	12N/7E-2C1	Coon Creek	22	48, 150
Granite Lake	See Lakeview 1	Hills Association		
Grebin, Howard A. and Tillie E.	12N/7E-17K1	Auburn Ravine	22	43, C-26
Griffing, Walter S. and Annie E.	12N/6E-12C1	Auburn Ravine	22	42, 148, C-23
Guiliford, Adrian	12N/6E-2H1	Auburn Ravine	22	42, 150
Gulbranson, Gordon I. and Beth L.	11N/7E-20P3	Rocklin	23	74, 93, 158, C-
Haffey, Barbara J. Jaquith, Vernon S. and Edna	14N/9E-4G1	Combie	20	48, 150, C-25
Hamasaki, Take	13N/7E-26J1	Coon Greek	21	50, 87, 151
Hammill, Malcolm	16N/8E-24K1	Wolf Creek	16	80, 95, 160
Hannaman Ditch	See Nevada Irr	rigation District		
Harris, M. A.	11N/7E-2A1	Rocklin	23	72, 93, 157
Harris, M. A.	See Glenn, Gor	don		
Harvey, Andrew M.	15N/8E-28A1	Wolf Creek	18	79, 95, 160
Hass, E. S.	16N/7E-33C1	Deer Creek	15	54, 153
Heilman, C. F. and J. K.	19N/11E-6F1	Sierra City	7	76, C-21
Hemphill Ditch Amodei, S. (Mrs.) Forsythe, (Mrs.) Lewis, E. H. (Mrs.) Nevada Irrigation District	12N/6E-13A1	Auburn Ravine	22	h2, 85, 1h8, с-
Henriques, August	13N/8E-31D1	Coon Creek	21	53, 152
Herold, May (Mrs.) Rossi, Bernice Herold (Mrs.)	13N/7E-31H1	Coon Creek	21	51, 88, 151
Hidden Valley Community Association Cottonwood Lake	11 N/7E-35A1 11N/7E-35K1	Rocklin Rocklin	23 23	74, C-23 75, C-24
Hill, Malcolm R.	16N/7E-23N1	Deer Creek	15	53, 89, 153, C-
Hilliard, Joy	16N/8E-4E1	French Corral	16	63, 90, 154
Hopper, Arthur B.	13N/7E-19R1 13N/7E-30B1 13N/7E-30G1	Coon Creek Coon Creek Coon Creek	21 21 21	50, 87, 151 50, 88, 151 50, 88, 151
Horath, Frank P.	12N/8E-16H1	Auburn Ravine	22	Щ, 149
Horton, R. E. and Ruby	11N/7E-10P1	Rocklin	23	72, 93, 157, C-
Howard, Harry	19N/6E-35ML	French Dry Creek	6	67, 155
loxworth	See Burris. Bur	rris, Burris and Hoxwo	rth	

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Huestis, Charles A.	12N/7E-13G1	Auburn Ravine	22	42, 85, 148	
Hughes, Brian B. and Emma Mae	12N/7E-36M1	Rocklin	22	76, 94, 158, C-12	
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Idaho-Maryland Ditch	See Oro Lumber	Company			
Ingersoll, E. A.	18N/7E-33Ml	Pike	9	34	
Island Lake	See Nevada Irr	igation District			
Jacinto, Manuel	12N/8E-7F1	Coon Creek	22	49, 87, 151	
Jackson Lake	See Nevada Irr	igation District			
Jamison Ditch	See McDaniel,	H. V.			
Jaquith, Vernon S. and Edna	See Haffey, Ba	rbara J.			
Johnson, Elmer A. and Mattie Van Dyke	12N/7E-19A1	Auburn Ravine	22	43, 85, 148, C-20	
Johnson, Floyd	21N/10E-4B1	La Porte	2	70	
Johnson, G. G.	12N/8E-17B1	Auburn Ravine	22	14, 86, 149	
Jones, Dennis and Muriel	14N/8E-20K1	Wolf Creek	20	78, 159	
Jordon, Yale H.	15N/8E-22R1	Wolf Creek	18	79, 160	
Kehn, M. Morris Reservoir	17N/8E-6R1.	Pike	12	71, 92, 156, C-15	
Kelley, Thomas J. Wentsch, Harold E.	11N/7E-34H1	Rocklin	23	74, 158, C-23, C-2	
Kholes, Joseph and Gladys Maxwell, June I.	11N/7E-12C1	Rocklin	23	73, 157, C-24	
Kidd Lake	See Pacific Ga	as and Electric Company			
Kohler, Ed J.	19N/9E-31K1	Bullards Bar	7	46, 149	
LaFaille, Ray and Lillian	12N/7E-21C1	Auburn Ravine	22	43, 85, 148, C-18	
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Lake Combie	See Nevada Irr	eigation District			
Lake Culbertson	See Pacific Ga	as and Electric Company			
Lake Francis	See Pacific Ga	as and Electric Company			
Lake Mary	See Central Pa	acific Railroad Company			
Lake Mildred	See Yuba Inves	stment Company			
Lake Spaulding	See Pacific Ga	as and Electric Company			

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Lake Vera	See Piedmont Ca	mpfire Girls			
Lakeview Hills Association Granite Lake	lln/7E-25Nl lln/7E-35A2	Rocklin Rocklin	23 23	7կ, C-29 7կ, C-29	
La Porte Water District	21N/9E-8P1 21N/9E-9P1	La Porte La Porte	2 2	34, 70 34, 70	
Lapp, Roland C.	12N/8E-18C1 12N/8E-18G1 12N/8E-18L1 12N/8E-18Q1 12N/8E-18R1	Auburn Ravine Auburn Ravine Auburn Ravine Auburn Ravine Auburn Ravine	22 22 22 22 22 22	44, 149 44, 86, 149 45, 149 45, 86, 149 45, 86, 149	
Lewis, E. H. (Mrs.)	See Hemphill Di	tch			
Lewis, I. C. Wyatt, L. E.	11N/7E-20J1	Rocklin	23	73	
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Lindsey Lake Middle	See Pacific Gas	and Electric Company			
Loney, D. M.	17N/9E-27K1	French Corral	13	65, 90, 154	
Looser, John J.	16N/8E-22H1	Deer Creek	16	55, 153	
Los Verjeles Dam	See Yuba Invest	ment Company			
Lower Peak Lake	See Pacific Gas	and Electric Company			
Lower Salmon Lake	See Sierra Butt	es Canal and Water Co	mpany		
Lower Sardine Lake	See Sierra Butt	es Canal and Water Co	mpany		
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Maish, C. R. and G. W.	16N/7E-3E1 16N/7E-4Q1 17N/7E-33R1 17N/7E-33R2	French Corral French Corral French Corral French Corral	15 15 15 15	63, 154 63, 154, C-27 63, 90, 154 63, 154	
Marty, A. J.	13N/8E-14A1	Coon Creek	21	52, 152	
Mavrias, George	lln/6E-25Gl	Rocklin	23	72, 92, 157, 0	
Maxwell, June I.	See Kholes, Jos	eph and G.			
McAdoo, James S.	12N/7E-29N1	Rocklin	22	75, 158	
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McElroy, Frank C.	13N/7E-28K1	Coon Creek	21	50, 88, 151	
McKenna Mining Company	22N/10E-28B1	La Porte	1	70	
Meadow Lake	See Pacific Gas	and Electric Company			
Mefford, D. M.	15N/8E-22E1 15N/8E-27C1	Wolf Creek Wolf Creek	18 18	79, 95, 160 79, 95, 160	
Meredith, George F. and Dixie M.	11N/7E-5R1	Rocklin	23	72, 157, C-14, C-1	
Meredith, Mason J.	18N/10E-29P1	Washington	10	77, 94, 159	
Milham, C. R. and M. L.	14N/8E-5J2	Wolf Creek	20	77, 94, 159, C-20	
Milhous, Calvin	17N/8E-15D2	French Corral	12	64, 154	
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Minona Mining Company Pine Grove Ditch	17N/8E-15D1	French Corral	12	10, 34, 64, 90,154	
Moats, Leslie L. (Sr.) and Violet	13N/7E-26N1	Coon Creek	21	50, 151, C-12	
Modglin, Andrew J. Pike, W. H.	21N/9E-13R1 21N/10E-7K1	La Porte La Porte	2 2	70, C-18 70, C-18	
Mohammed, John G.	12N/7E-4G1	Coon Creek	22	49, 87, 151	
Montero, Antonio and Frances	lln/7E-17C1	Rocklin	23	73, 93, 157, C-24	
Moran, Alex Williams, Lloyd	18N/7E-3J1 18N/7E-3K1	Bullards Bar Bullards Bar	9	45, 86, 149 45, 86, 149	
Morandi, Charles A.	15N/9E-17Ml 15N/9E-18Pl	Wolf Creek Wolf Creek	13 13	79, 160 79, 160	
Morris, Noah and Gracie	11N/7E-16H2	Rocklin	23	73, 157	
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Mulligan, Ethel (Miss)	12N/7E-9P1	Auburn Ravine	22	42, 85, 148, C-14	
Mulock, Harry	19N/7E-17P1	French Dry Creek	6	33, 67, 91, C-14	
Musso, Alvin W.	13N/8E-34H1	Coon Creek	21	53, 89, 152, C-24	
Narrows Powerhouse	See Pacific Gas	and Electric Company			
Nasholm, Axel	20N/10E-33A1	Goodyears Bar	4	69, 155	
Navas, Theodore M.	12N/7E-36E1	Rocklin	22	75, 158, C-14	
Nelson, E. A.	19N/8E-28N1	Bullards Bar	6	46, 86, 149	
Nevada City Water Department	16N/9E-17J1	Deer Creek	16	34, 55, 89	

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				D-11, D-12
Bowman-Spaulding Conduit	18N/12E-8C2	Donner Pass	11	59, 96, C-12, C-
				D-10-D-12, D-21,
Comp For West Comp?	13N/7E-13N1	Coon Creek	21	D-32, D-33
Camp Far West Canal	1311/12-1311	Coon Greek	21	50, 98, 99, 116, D-22-D-24
Cascade Canal	17N/10E-34E1	Deer Creek	13	33, 55, 96, C-12
	21:17 2 1 2 3 4 - 2			D-14
China Ditch	16N/7E-20E1	Deer Creek	15	12, 33, 53, 97,
				C-12, D-15, D-16
				D-18
Coon Creek Pump	13N/6E-22A1	Coon Creek	21	49, 99, D-25
Doty's South Ditch	13N/6E-36G1	Coon Creek	21	49, 99, D-24
D-S Canal - Deer Creek Reservoir	16N/9E-10B1	Deer Creek	16	33, 39, 55, 97,
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Excelsior Ditch	17N/8E-27H1	French Corral	12	12, 65, 96, C-12
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French Lake	18N/13E-17P1	Donner Pass	11	60, D-10, D-11
French Ravine Ditch	15N/8E-9Kl	Wolf Creek	18	78, 97, D-16, D-
Gold Hill Canal	13N/8E-3H1	Combie	21	33, 47, 98, 116,
				C-12, D-9, D-21-
17 D2 t - b	2) M /mm 00m2	O D. Hant	3.0	D-25, D-27
Hannaman Ditch Island Lake	14N/7E-28B1 18N/12E-27C1	Camp Far West Donner Pass	19 11	47, 97
Jackson Lake	19N/13E-31N1	Donner Pass	8	60, D-10, D-11 61, C-12, C-13,
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Magnolia No. 3	13N/8E-2E2	Combie	21	47, 98, D-22
Milton Bowman Tunnel-Milton	19N/12E-12N1	Alleghany	8	41, 96, C-13, D-
Reservoir				D-11
Newtown Ditch	16N/8E-12K1	Deer Creek	16	10, 33, 54, 97,
Rough and Ready Ditch	16N/9E-7H1	Deer Creek	76	C-12, D-17, D-18
Rough and Ready Ditte	TON/ AF= LUT	Deer Greek	16	33, 55, 96, 118, C-12, D-16, D-18
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Pendola, James and Frank 19N/8E-34B1 Bullards Bar 6 46, 86, 149	13N/7E-29B1	Coon Creek	21			
	19N/8E-34B1	Bullards Bar	6	46, 86, 149		
		18N/12E-28E1 18N/13E-3LJ1 17N/12E-17B1 17N/12E-15N1 17N/12E-15N1 17N/7E-5J1 17N/12E-20H1 17N/13E-10A1 17N/1LE-23M1 18N/12E-20H1 18N/12E-20H1 18N/12E-21F1 17N/1LE-30R1 18N/13E-27B1 16N/6E-1LQ1 17N/12E-8E1 17N/12E-8E1 17N/12E-20J2 17N/1LE-32D1 18N/12E-15C1 18N/1LE-25C1 18N/1LE-25C1 18N/1LE-25C1 16N/10E-36Q1 16N/11E-21E1 16N/12E-33B1 See Sierra But 18N/6E-2LM1 18N/9E-8M1 12N/7E-36N1 18N/8E-8P1 16N/7E-29E1	18N/12E-28E1 18N/13E-3LJ1 17N/12E-17B1 Donner Pass 17N/1LE-29E1 Donner Pass 17N/1LE-29E1 Donner Pass 17N/12E-15N1 Donner Pass 17N/12E-5J1 Donner Pass Pike 17N/12E-20H1 Donner Pass Pike 17N/12E-20H1 Donner Pass 17N/1LE-23M1 Donner Pass 18N/12E-20H1 Donner Pass 18N/12E-20H1 Donner Pass 18N/12E-21F1 Donner Pass 18N/12E-21F1 Donner Pass 18N/12E-27B1 Donner Pass 18N/12E-27B1 Donner Pass 17N/1LE-32D1 Donner Pass Donner Pass 17N/1LE-32D1 Donner Pass Donner Pass 17N/1LE-32D1 Donner Pass Donner Pass 18N/12E-15C1 Donner Pass Donner Pass Donner Pass 16N/12E-25P1 Donner Pass Donner Pas	18N/12E-28E1		

TABLE 15 (Continued)

Diversion name or owner	Location	Subunit	References		
	number		Plate 2 sheet no.	Page nos. of text and appendixes	
Piedmont Campfile Girls	17N/8E-25Q1	French Corral	12	65, 90, C-14	
Lake Vera	111/05-2741	Trongh Corrar	7.6	0),)0, 0-14	
Pike, W. H.	See Modglin,	Andrew J.			
Pilliard, Edward and Margaret	14n/8E-35C1	Combie	20	48, 150, C-31	
Pine Grove Ditch	See Minona Mi	ning Company			
Pingree, H. O.	15N/8E-15M1	Wolf Creek	18.	79, 95, 159	
Poirier, Frank	11N/8E-7N1	Rocklin	23	75, 158	
Rahlman, Desral (Mrs.)	13N/7E-29N1	Coon Creek	21	50, 151	
	7 01 /01 7 01				
Rainey, John	13N/8E-18F1	Coon Creek	21	52, 152	
	13N/8E-18F2 13N/8E-19H1	Coon Creek	21 21	52 , 152 52 , 152	
	TOWOR-TANT	Coon Creek	21	72, 172	
Reader, Frank S.	17N/8E-20G1	French Corral	12	6h, 90, 15h	
Reader, Francis J.	17N/8E-20N1	French Corral	12	65, 15h	
Renfree, Milt	12N/8E-5K1	Auburn Ravine	22	ևկ, 86, 148	
Rich, Robert P.	12N/7E-23D1	Auburn Ravine	22	43, 85, 148	
Richardson, Howard C. and L. E.	16N/7E-4E1	French Dry Creek	15	66, 155, C-22	
	16N/7E-5H1	French Dry Creek	15	66, 155, C-26	
Ripley, Paul and Elizabeth	12N/7E-23F1	Auburn Ravine	22	43, 85, 148, C-2	
Robbins, E. H. and Callie J.	14N/8E-32D1	Combie	20	48, 150, C-13,	
				C-27	
Robbins, Herman L.	13N/7E-30Q1	Coon Creek	21	51, 151	
,	13N/7E-30Q2	Coon Creek	21	51, 88, 151	
Robinson, C. H. and Bernice G.	14n/8E-17L1	Wolf Creek	20	77, 159, C-28	
Robson, George L. and Marion E.	11N/7E-20P2	Rocklin	23	74, 93, 158, C-2	
Roeding, George C. (Jr.)	11N/7E-8G1	Rocklin	23	72, 157, C-22	
Rogers, Basil T.	11N/8E-6H1	Rocklin	23	75, 158, C-21	
Roland, John	14N/9E-29D1	Combie	20	48	
Rolph, C. J. (Jr.)	15N/9E-21M1	Combie	18	48, 150, C-24	
Rondoni, Antone	15N/9E-18R1	Wolf Creek	18	79, 160	
Ross, James	13N/6E-36H1	Coon Creek	21	49, 151	

Diversian name	Lacotian Subunit	References		
or owner	number	0000	Plate 2 sheet no.	Page nos. of text and appendixes
Page Sucto T and M F	11N/7E-17P1	Rocklin	23	73, 93, 157, 0-2
Ross, Susie I. and W. F.			4)	13, 93, 157, 6-2
Rossi, Bermice Herold (Mrs.)	See Herold, May			
Rough and Ready Ditch	See Nevada Irri	gation District		
Rucker Lake	See Pacific Gas	and Electric Company		
Ruhkala, Ruben J.	11.N/7E-20P1	Rocklin	23	74, 93, 158, C-2
Sacramento Box and Lumber Company	19N/7E-9C1	Bullards Bar	6	1 6
Salmon, E. O.	12N/8E-7R1 12N/8E-7R2	Auburn Ravine Auburn Ravine	22 22	կկ, 148 կկ, 148
Samson, Stanley J. and Betty R.	13N/7E-36J1	Coon Creek	21	52, 88, 152, C-2
Sawmill Lake	See Nevada Irri	gation District		
Schoonderwoerd, Guy	11N/7E-19R1	Rocklin	23	73, 93, 157
Scotts Flat Dam	See Nevada Irri	gation District		
Selvester, James M.	17N/8E-2B1 17N/8E-2C1 17N/8E-2F1	French Corral French Corral French Corral	12 12 12	64, 154 64, 154 64, 154
Sheehan, Forest	20N/9E-18F1 20N/9E-18M1	La Porte La Porte	4	70, 156 70, 156
Sierra Buttes Canal and Water Compar Lower Salmon Lake Lower Sardine Lake Packer Lake Upper Salmon Lake Upper Sardine Lake	21N/12E-28L1 20N/12E-10E1 20N/12E-5P1 21N/12E-29H1 20N/12E-9K1	Sierra City Sierra City Sierra City Sierra City Sierra City	3 5 5 3 5	77 76 76 77 77
Sills, Leslie W.	19N/6E-25D1	French Dry Creek	6	67, 91, 155
Smith Bar Ditch	See Smith, Henry	y P.		
Smith, Earl	16N/10E-36F1	Dutch Flat	16	61, 153
Smith, George and Charles	15N/8E-3E1	Wolf Creek	18	78, 159
Smith, Henry P. Smith Bar Ditch	16N/6E-7L1	French Dry Creek	15	66, 90, 155, C-2 C-25
Snow Mountain Ditch	See Nevada Irrig	gation District		
Soper-Wheeler Company (Import from Feather River Hydrographic Unit)	20N/8E-20R1	Bullards Bar	4	34, 46, 104, 107 149
South Yuba Canal	See Pacific Gas	and Electric Company		
Souza, I. R. and Mary	13N/7E-34A1 13N/7E-34G1	Coon Creek Coon Creek	21 21	51, 88, 152 52, 88, 152, C-1
Staples, Donald and Charles	16N/6E-24L1	Deer Creek	15	53, 89, 152

TABLE 15 (Continued)

Diversion name	Location	Subunit	References		
or owner	number		Piote 2 sheet no.	Page nos. of text and appendixes	
Stephens, Myron J. and Mona	11N/7E-27M1	Rocklin	23	74, 158, C-21	
Stevens, James M.	17N/5E-34K1	French Dry Creek	12	66, 91, 155, C-19	
Stevenson, J. W.	15N/8E-22M1	Wolf Creek	18	C-21, C-25 79, 95, 160	
Stone Ditch	See Nevada Irr	rigation District			
Tahoe Sugar Pine Company	17N/11E-4P1	Donner Pass	13	56, 89	
Takagishi, David M.	11N/7E-15B1	Rocklin	23	73, 157, C-3lı	
Tarr Ditch	See Nevada Irr	rigation District			
Thorson, Clifford G.	16N/8E-21G1	Deer Creek	16	54, 153	
Traylor, Arthur L.	12N/7E-33E1	Rocklin	22	75, 94, 158	
Tresler, J. W.	18N/6E-36B1	French Dry Creek	9	67, 155	
Trubschenck, Lorin N. Big French Reservoir	17N/8E-4N1	Pike	12	71, 156, C-30	
Tunnel Ditch	See Nevada Irr	igation District			
Turnell, S. I.	See French, C.	C.			
Ueland, Andrew	16N/9E-32D1	Greenhorn Creek	16	69, 92, 155	
Union Ditch	See Peacock, J	. C.			
Upper Peak Lake	See Pacific Ga	s and Electric Company			
Upper Rock Lake	See Pacific Ga	s and Electric Company			
Upper Salmon Lake	See Sierra But	tes Canal and Water Co	mpany		
Upper Sardine Lake	See Sierra But	tes Canal and Water Co	mpany		
Van Tiger, Roy	16N/7E-21N1 16N/7E-22N1	Deer Creek Deer Creek	15 15	53, 89, 152 53, 89, 152	
Varnie, Joe	See Dieterich,	J. W. and Nellie E.			
Walkenhorst, J. M. (Jr.)	14N/SE-5J1	Wolf Creek	20	77, 159	
Walters, Pat	12N/7E-20B1	Auburn Ravine	22	43, 148, C-21	
Webb, James E. and Elsie W.	13N/8E-34F1	Coon Creek	21	53, 88, 152, 0-24	
Welch, O'Farrell	11N/7E-23J1	Rocklin	23	74, C-23	
Welles, Lucy (Miss)	16N/9E-32M1	Greenhorn Creek	16	69, 92, 155	
Wentsch, Harold E.	See Kelley, Th	omas J.			
Westall, Amy Wear	20N/12E-30HI	Sierra City	5	76	
Wheeler, Katie M. (Mrs.)	15N/8E-12P1	Wolf Creek	18	78, 94, 159	

Diversion name	Location	Subunit	Re	eferences
or owner	number		Plate 2 sheet no.	Page nos. of text and appendixes
White, L. M.	17N/8E-11F1	French Corral	12	611
White Rock Lake	See Pacific Ga	s and Electric Company		
Whitehead, Edna A. (Mrs.)	19N/7E-14H1	Bullards Bar	6	46, 149
Williams, Lloyd	See Moran, Ale	×		
Winslow, Ralph J. and Lois	16N/7E-35D1 16N/7E-35D2	Deer Creek Deer Creek	15 15	54, 153 54, 153
Wollam, Carl C.	14N/8E-20G1	Wolf Creek	20	76, 359, C-32
Wright, M. A. (Mrs.)	19N/10E-8A1	Goodyears Bar	7	68
Wyatt, L. E.	See Lewis, I.	c.		
Young, Murray and Edith E.	14N/8E-20R1	Wolf Creek	20	78, 159, C-31
Yuba Investment Company Los Verjeles Dam	18N/6E-34Q1	French Dry Creek	9	67, C-13

CHAPTER III. LAND USE

The results of a survey of water uses and water facilities in the Yuba-Bear Rivers Hydrographic Unit were presented in Chapter II. In this chapter are reported the results of a survey of present land uses as related to water use. Also included is a brief summary of historical conditions. A thorough knowledge of the nature and extent of land and water uses under existing conditions within this hydrographic unit is one of the primary requisites in evaluating future water requirements within the unit.

Historical Land Use

As previously noted, the early development of the Yuba-Bear Rivers Hydrographic Unit paralleled closely the mining of gold, and many miners who failed turned to farming for their living. The majority of the lands under cultivation in the early years were producing fruit which started with the experimental planting of peach and almond seeds in 1846 along the Bear River flood plain, and soon extended to the nearby foothills. In addition to these orchards, extensive brush and timberlands were cleared for the production of barley, wheat, oats, and other crops. Although mining decreased after 1852, agricultural lands steadily increased until 1880 when the mines in Nevada closed. Very little agricultural activity took place from this time until during and after World War I when, with an increased demand

agricultural lands expanded and irrigation facilities improved. According to U. S. Census records, the irrigated area in Placer County, to which nearly all water was supplied by Pacific Gas and Electric Company, increased from 16,845 acres in 1910 to 27,520 acres in 1920.

In Nevada County a rapid expansion of agriculture took place with the development of Nevada Irrigation District in the 1920's and 1930's. In 1929, the former Division of Engineering and Irrigation reported in its first issue of Bulletin 21, "Irrigation Districts in California," that 11,704 acres were then irrigated within the Nevada Irrigation District and that only about one-third of the Nevada County portion of the district's distribution system was complete, and none of the Placer County portion was complete. Also reported was that one-third of the area irrigated in Nevada County was devoted to orchard crops and the remaining two-thirds was producing forage crops, while in Placer County practically all of the irrigated lands were in orchard. At that time, 32,000 acres in Nevada County and a large percentage of the area in Placer County had been cleared to receive water from the district. Lands adjoining the communities of Nevada City and Auburn were prominent in this agricultural development.

During the depression years of the 1930's, agricultural development again declined, with the possible exception of orchard Since that time irrigated agriculture and the raising of livestock has increased.

Present Land Use

Rivers Hydrographic Unit was conducted during the spring of 1957 as part of this investigation. The land uses mapped in this survey as related to water use fall into four major categories: irrigated lands, dry-farmed lands, urban lands, and recreational lands; and one minor category: naturally high water table lands, such as natural meadowlands. Lands not falling into any of these five categories were mapped as native vegetation. The various types of land uses mapped in 1957 are delineated on sheets 1 through 23 of Plate 2. The acreages of land uses within each subunit are presented in Table 16. The values represent gross acreages, including nonwater service areas such as roads, ditches, buildings, and storage areas and miscellaneous rights-of-way which occur within the mapped areas.

At the time of the survey, Beale Air Force Base was relatively inactive, and most of the facilities were unused. The developed areas were shown neither as urban nor military areas. Irrigated lands within the boundaries of the base were delineated as such.

Methods and Procedures

The land use survey and the location of surface water diversions were accomplished by relating field observations to aerial photographs having a scale of about 1:20,000. Stereoscopes were used to assist in the field mapping procedure.

As each point of diversion was located, it was plotted on the aerial photographs, and as the use of each parcel of land was determined, it was delineated on the aerial photograph.

The hydrographic unit was traversed by automobile as completely as roads and terrain permitted. When necessary because of poor accessibility, inspections were made on foot. An example of an aerial photograph with land use data delineated on it is shown on page 141.

After completion of the field mapping, the data delineated on the photographs were transferred to copies of U. S. Geological Survey quadrangle maps reproduced at a scale of 1:24,000. This procedure was necessary to bring the delineated areas to a common scale for accurate determination of acreages, since the scale of the aerial photographs utilized varied widely. A series of these maps, showing the location of all diversions and the fields associated with each irrigation diversion, was reviewed by local representatives. These work maps were then used in the preparation of Plate 2.

Prints of these maps were used in computing the acreages of the land uses. Each delineated area on these maps was manually cut out and was carefully weighed on an analytical balance. The weights were converted to acreages, using ratios determined for each map. This method has proven to be an expeditious and accurate means of area determination where a large number of small parcels is involved.

TABLE 16

LAND USE IN

YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(In acres)

Subunit and County	Irrigated		ly high le lands	Dry-farmed	Urban	Recreationa
	lands	Meadowlands	Marsh lands	lands	lands	lands
Alleghany		Lan				
Nevada County Sierra County	60	400			20	40
Total	60	<u>360</u> 760	0		<u>50</u> 70	0 40
***************************************	00	100	U	O	10	40
Auburn Ravine						
Placer County	6,890	30	10	350	1,600	0
Bullards Bar						
Butte County	0	0		0	0	0
Sierra County	10	ő		Ö	o	0
Yuba County		20			60	_30
Total	190 200	20	0	<u>30</u> 30	60 60	30
Camp Beale Yuba County	90	0	0	400	•	
1 doa county	90	U	O	400	0	0
Camp Far West						
Nevada County	990	20		0		
Placer County	650	0		950		
Yuba County	0	<u>0</u> 20		_ 0		_
Total	1,640	20	0	950	0	0
Combie						
Nevada County	830	60		70	20	0
Placer County	520	0		110		10
Total	520 1,350	60	0	180	150 170	10
7 (1)-						
Coon Creek Placer County	11,090	0	30	970	580	0
1.tacci county	11,050	· ·	50	310)00	O
Deer Creek						
Nevada County	2,500	20	20	140	1,260	30
Yuba County	2,500	0 20	0	0	0	0
Total	2,500	20	20	140	1,260	30
Donner Pass						_
Nevada County		1,460				510
Placer County		$\frac{170}{1,630}$				230 740
Total	0	1,630	0	0	0	740
Dry Creek						
Nevada County	2,010	10		30		
Yuba County	0			140		
Total	$\frac{0}{2,010}$	0 10	0	140 170	0	0
Dutah Flat						
Outch Flat Nevada County	0	160		10	0	10
Placer County	20	150		130	140	0
Total	<u>20</u> 20	150 310	0	130 140	140 140	10
		1				
French Corral	3 300	90	•	70	50	00
Nevada County	1,300	80	0	70	50	20

LAND USE IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957 (In acres)

Subunit and County	Irrigated		ly high le lands	Dry-formed	Urban	Recreationa
,	lands	Meadowlands	Marsh lands	lands	lands	lands
French Dry Creek Butte County Nevala County Yuba County Total	0 180 2,370 2,550	0 0 450 450	 ō	0 0 140 140	0 0 290 290	
Goodyears Par Sierra County Yuba County Total	10 0 10	280 <u>0</u> 280		20 0 20	170 0 170	200 0 200
Greenhorn Creek Nevada County	270	90	0	40	20	0
La Porte Plumas County Sierra County Yuba County Total	0 10 10 20	0 30 10 40			60 0 0 60	10 0 0 0
Orchard-Pleasant Grove Creeks Placer County	350	10	10	70	560	0
Pike Nevada County Sierra County Yuba County Total	70 20 70 160	30 20 20 70		90 10 0 100	110 0 80 190	0 30 40 70
Rocklin Placer County	11,180	20	20	1,100	890	0
Sierra City Sierra County	30	1,270	0	0	50	370
Washington Nevada County	30	60	0	0	150	10
Wolf Creek Nevada County	2,660	30	0	30	1,710	_0
SUMMARY:						
BUTTE COUNTY NEVADA COUNTY PLACER COUNTY PLUMAS COUNTY SIERRA COUNTY YUBA COUNTY	0 10,840 30,700 0 140 2,730	0 2,420 380 0 1,960 500	0 20 70 0 0	0 480 3,680 0 30 710	0 3,340 3,920 60 270 430	0 620 240 10 600 70
TOTAL	44,410	5,260	90	4,900	8,020	1,540



Example of Land Use delineated on aerial photograph

Symbols used on this photograph

ipl	- irrigated alfalfa	iD7 - intercropped irrigated wine
ip3	- irrigated mixed pasture	iV2 grapes and plums
	- irrigated native pasture	iF8 - irrigated miscellaneous seed crops
	- irrigated olives	iTl9 - irrigated bushberries
	- irrigated apples	iT20 - irrigated strawberries
	- irrigated peaches or nectarines	iV2 - intercropped irrigated wine grapes
iD5Y	- nonbearing irrigated peaches or	iDoY and nonbearing pears
	nectarines	nD6 - nonirrigated pears
	- irrigated pears	nD7 - nonirrigated plums
iD7	- irrigated plums	nDl2 - nonirrigated almonds
iDlO	- irrigated miscellaneous	nG5 - nonirrigated grain hay
	deciduous	nV2 - nonirrigated wine grapes
iDlOY	- nonbearing irrigated miscel-	U - urban
	laneous deciduous	NV - native vegetation

Irrigated Lands

Irrigated lands, as designated in this report, include all agricultural lands which receive water artificially applied. Acreages of irrigated lands are reported in Table 17 by surface water diversion, by subunit, and by crop. Although the irrigated lands are tabulated under the name of the subunit within which the lands are located, it should be noted that the diversion serving the lands may originate in another subunit and that a given diversion may serve lands in more than one subunit. It was not possible to determine the areas of lands served by each diversion in the Nevada Irrigation District system, because of the intermingling of waters from the several diversions. Within each subunit all lands served by the district are combined in a single line entry in Table 17. The lands served by Pacific Gas and Electric Company were similarly treated.

The irrigated lands are segregated in Table 17 into grain and hay crops, field crops, pasture, truck and berry crops, orchard, vineyard, and idle irrigated lands. Hay crops in the area consist entirely of alfalfa. Pasture was further subdivided into mixed, native, and meadow pasture, the latter comprising native pasture lands having a high water table induced by application of irrigation water. Orchard crops are subdivided into deciduous and subtropical. Deciduous orchards are still further subdivided into apples, peaches, pears, plums, mixed and miscellaneous fruits, and miscellaneous nuts.



rigated pasture est of rass Valley



Cattle grazing south of Grass Valley

Idle irrigated lands are those lands which were not irrigated in the year of survey but which had been irrigated within the preceding three years. Fallow irrigated lands are those cultivated lands which may have been irrigated during the year of survey, but which at the time of survey were only tilled and not planted to a crop.

The irrigated lands were identified on the work maps by diversion service area, by type of service received in the year of survey, and by crop irrigated, but on Plate 2 they are grouped into three categories: (1) those lands which received a full irrigation during the year of survey, (2) those lands which received only a partial irrigation because of insufficient water supply, and (3) those lands usually irrigated but which were idle or fallow in 1957. The limited acreage irrigated by ground water is included in Table 17 and delineated on Plate 2.

Naturally High Water Table Lands

In addition to the lands which receive applied water as described above, there are lands supporting vegetation which utilize water from a naturally high water table, such as mountain meadows or lands adjacent to lakes and streams. These are shown on Plate 2 as "naturally irrigated meadowlands" and "marshes and swamps."

Dry-farmed Lands

Dry-farmed lands are those lands normally planted to a crop but which do not receive applied water. These include all lands so farmed, whether or not a crop is produced in the year of survey. Dry-farmed lands are called "idle" if entirely uncultivated in the year of survey and "fallow" if tilled but without a crop. Lands which had been idle for more than three years and appeared to have reverted to "native vegetation" were so mapped.

It should be noted that the term "dry-farmed" as used herein refers to the farming practice on these lands, and not to a lack of soil moisture.

Since noncultivated rangelands are usually indistinguishable from lands with native cover not used for grazing purposes, both types are included in native vegetation. Water use in both cases is essentially the same, and is dependent upon precipitation.

Urban Lands

Urban lands include the total areas of cities, towns, small communities, and industrial plots which are large enough to be delineated. Also included are parks, golf courses, race tracks and cemeteries within or near urban areas. The acreages represent gross delineations, including streets and vacant lots, and are therefore not necessarily fully developed at the present time. In this survey the boundaries of urban communities were delineated to include all lands with a density of one house or more per two acres.

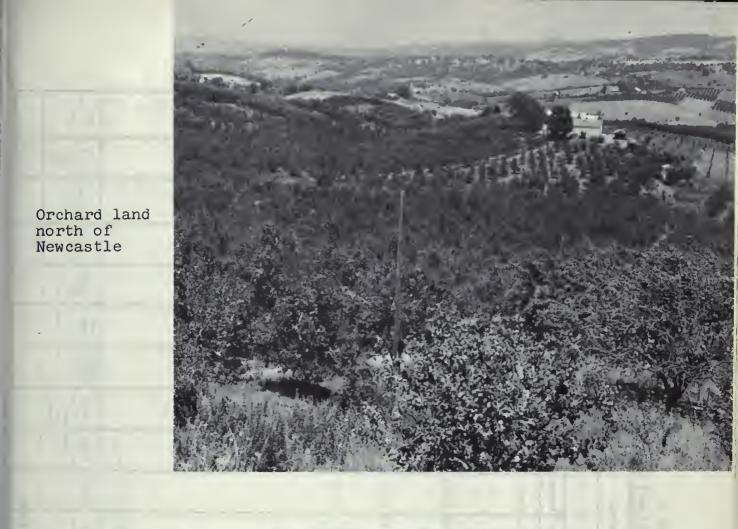
Recreational Lands

Recreational lands were mapped on aerial photographs in the field in four categories: (1) residential, (2) commercial,

(3) camp and trailer sites, and (4) parks. Recreational residential lands include permanent and summer home tracts within a primarily recreational area. The estimated density of homes per acre was also indicated. Recreational commercial lands include those containing motels, resorts, hotels, stores, restaurants, and similar commercial establishments in primarily recreational areas. Lands mapped in the camp and trailer sites category include those areas so used within primarily recreationa areas outside the boundaries of parks. The entire areas within the boundaries of parks are included without regard to the extent of development within them. Obviously, nearly all of the mountainous and water surface areas are suitable for some recreational use such as fishing, hunting, hiking, and picnicking; however, for the purpose of this land use survey, consideration is given only to those lands having some intensive development requiring water service. The recreational lands are combined into one group in Table 16 and on Plate 2.

Native Vegetation

Lands which are essentially in a native state and not included in any of the above categories are mapped as native vegetation. Native vegetation totals some 1,187,000 acres, or 95 percent of the Yuba-Bear Rivers Hydrographic Unit. Included in this area are water surfaces, scattered residences, farm buildings, storage areas, and other uses covering a few acres or less which are too small to be mapped separately. These lands are used to a great extent for mining, commercial timber production, livestock range, and/or recreational activities such as fishing, hunting, hiking and picnicking.





Furrow irrigation northeast of Lincoln

TABLE 17

IRRIGATED LANDS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(In acres)

											1							
					Posture						Orchara							
Location	Diversion name	Groin and hay	Field				and berry			Deciduous					Vineyard	Total	or	Total
nomber	Owner	crops	scions	Mixed	Notive	Meadaw	craps	Apples	Peaches	Peors	Plums	Mixed and misc. fruits	Misc. nuts	tropicol		irrigated	fallow	
							AIIA	 Alleghany S	Subunit									
19N/13E-20Al Jesse Ennor	Jesse Ennor		1	ı	1	63	1	1	ı	1	1	I	I	1	1	গ্ৰ	1	গ্ৰ
Total Al	Total Alleghany Subunit	0	0	0	0	63	0	0	0	0	0	0	0	0	0	63	0	63
							- Autour	- Havine	Subunit									
12N/66-12C1	Walter S. and Annie E. Griffing		100	17												25ª		25
12N/6E-12K1	W. D. and Bertha Byers			35												35		35
12N/6E-13A1	Hemphill Ditch			26	€											105	36	177
12N/7E-9Pl	Miss Ethel Mulligan									п						11		ជ
12N/7E-13G1	Charles A. Huestis			7							8					27		27
12N/7E-16H1	Frank H. Newcomb			775												75g		775
12N/7E-18D1	Frank E. Conley			92												56		56
12N/75-19A1	Elmer A. and Mattie Van Dyke Johnson			37												37°P		34
12N/7E-20B1	Pat Walters			8												ଷ		R
12N/7E-21C1	Ray and Lillian Lafaille			81.							8					20g		ম
12N/TE-23D1	Mobert P. Rich			87	10							Μ				42		75
12N/7F-23F1	Peul and Elizabeth Ripley			6								€0				aT.		น
12N/7E-23H1	J. W. and Nellie E. Dieterich			9												9		9
13W/7F-44×1	Merrill M. Carlton										60					70		.o
12N/7E-24F1	C. L. Dimmler											13				13		13
12N/8F-3F1	George Boorinakis									12						12		12
12N/85_4D1 12N/8E-4D2	Jack Fanini			01						5					1	57		15
12N/8E-5K1	Milt denfree			77												17.		77
12N/SE-7HI LZN/SE-7HD	E. C. Salmon			6												38		<u>е</u>

	1	0.00		19	6	12	288	5	77	6	m	9	20	4,022	7 200	6,893			7.	19	5	16	6	20	7	~	77	199		
	ldle	follow;												ş		102				6						1	I	0		
	Total	irrigated		19	6	12	58	2	4 P	۵	m	9	80	3,456	2,233				킈	OI	\$	16	63	95	2	٧.	77	061		
		Vineyara			î											0										1	1	0	1	
	_	Sub- trapical			Ī									3%		34												0		
		Misc. nuts			1									2	1	2											1	0	П	
		Mixed and misc. fruits.	_			ī			7					43	76	165					 		V		Ī	1	1	0	П	
Orchard	snor	s E			y	2								898	1,028	1961		_								Ī	ı	0		
	Deciduous	Pears	7		i	7	54			6		9	40	526	615	1,253										Ī	1	0		
		Peoches			,	Ī								19	118	37	4										1	0		
		Apples												25	40	33	0 0				2				1	Ī	729	10		
	Truck	crops			Ī									28	1	28	a	-			1							0		
	Ī	Meadow	₹		ī										1	0											1	0	1	
	Posture	Notive				ī	77				3			8	7	9			71	10		16		56	7		1	103		
		Mixed		19	6			5				i		2,346	451	3, 6,1						1	63			5	A. A. B.	77		
	pieid	crops			1		-							2	I	1,0										1	1	0		
	Grain	and hoy crops												8	77	17							1					0		
	Diversion name			Everett M. Ludwig	Frank P. Horeth	G. G. Johnson	Iwami Nishimoto A. M. Ameral	H. V. We.arlel	Moland C. Lapp	Holend C. Lapp	Roland C. Lapp	Roland C. Lapp	Roland C. Lapp	Navads Irrigation District	Pacific Gae and Electric Company	Total Auburn Ravine Subunit			Lloyd Williams Alex Moran	Erle Pauly	Mrs. Edna A. Whitehead	E. A. Nelson	Fred N. Baker	James and Frank Pendola	Julius A. Cassano	Ed J. Kohler	Soper-Wheeler Co.	Total Bullards Bar Subunit		
		number		12N/8E-10F1	12N/8E-16H1	12N/8E-17B1	12N/8E-17K1 12N/8E-17K2	12N/8E-18B1	12N/8E-18C1	12N/8E-18G1	12N/8E-18L1	12N/8E-1801	12N/8E-18H1	Nsvads lrring	Pacific Gae a	Total Au			18N/7E-3J1 18N/7F-3X1	18N/8E-8F1	19N/7E-14H1	19N/8E-28N1	19N/8E-31G1	191/81-3481	19N/8E-35J1	19N/9F-31K1	20N/RF-20R1	Total B		

IRRIGATED LANDS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(In acres)

	Total			77	73	93		19	31	1,522	27	1,639		-4	8	ಬ	10	6	787	505	1,346		35	~	2	88
						_		_										_	-				+	_	-	
_	ldte				1	0				-2		2								1	0					
	Total	irrigated		77	73	93		61	31	517	25	1,634		7	ล	13	100	6	787	505	1,346		35	9	2	88
	Vinevord				1	0					1	0								1	0			4		
	1	tropical			I	0				2		7								1	0					1
		Misc. nuts			1	0					-	0								1	0		10			
		Mixed and misc. fruits			-	0					1	0							22	1	ន					
Orchord		Plums			1	0					1	0							7	22	ຄ			. 11		16
	Deciduous	Peors			1	0				35	1	35							219	307	526			6		1
		Peoches	Subunit		1	0	Subunit				1	0	Subunit		-					1	0	Subunit		I		
		Apples	Comp Beale S		1	0	For West		Ī		1	0	Combie Sut						25	위	35	Creek	П	Ţ		
	Truck and berry	craps	- E) -		ı	0	— g — d					0	ଥା∙							1	0	- <u>6</u> -				
	C	Meadow			1	0					1	0								I	0					
	Posture	Notive		77.	1	7.7				26	1	95							89	32	100			7	2	
		Mixed			শ্	35		79	ĸ	1,402	52	1,519		4	8	£1	to	6	452	757	079		×	Ì		12
	Field	craps			1	0					1	0								1	0		11	1		
	Grain and hav	crops			7#	3				17		17								1	0		6			
	Diversion nome	er.		tion Dietrict	upply	Total Camp Beale Subunit		Nannaman Ditch	Kenneth J. Casper	tion Dietrict	Alddus	Total Camp Far West Subunit		E. H. and Callie J. Robbins	Edward and Margaret Pilliard	Daniel O. and M. W. Newton	Vernon S. and Edna Jaquith Barbara J. Haffey	C. J. Rolph, Jr.	tion District	Pacific Gas and Electric Company	Total Combie Subunit		Adrlan Guiliford	David W. Gooch	Vincent H. Andsrson	Domingoe Ferreira
	Locotion	number		Nevada Irrigation Dietrict	Ground water eupply	Total Car		14N/7E-2881	14N/7E-33C1	Nevada Irrigation Dietrict	Ground water supply	Total Cam		14N/8E-32D1	14N/8E-35C1	14N/8E-22P1 Wolf Creek Subunit)	14N/9E-4G1	15N/9E-21ML	Nevada Irrigation District	Pacific Gas an	Total Cor		12N/6E-ZH1 Auburn Ravine Subunit)	12N/7E-2C1	12N/7E-201	12N/7E-3E1

For lettered footnotes, see last page of table.

IRRIGATED LANDS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(In acres)

Out a distant	ujos g			Posture		Touck									Total	Idle	
	and hoy	Field			Ĭ	ond berry			Deci	Deciduous			-qnS	Vineyard	spuol	or	Totol
owner	crops	2	Mixed	Notive	Meodow	crops	Apples	Peoches	Pears	Plums	Mixed ond misc. fruits	Misc. nuts	tropical		irrigoted	rollow	
									1 7								
							annone ve		200								
John G. Mohammed			37						ส						58		58
Vincent H. Anderson									83		п				33		33
Joe L. Garcia									22						83		8
Manuel Jacinto			17						н						188		18
Edward R. Forster			7						7						00		60
Chamberlein Estata Company		32	233												385		3%5
James Roes			15												154		15
C. S. Barton			13												ដ		ដ
Arthur B. Hopper										6					6		6
Take Hamasaki									9						68		9
Lealie L., Sr. and Violat Moate		-								র					ri N		ನ
Frank C. McElroy			п												п		я
Douglas Newcomb			83												8		a
Douglas Newcomb			12												ឧ		12
Edgar E. and Ina E. Pellet				61						4					9		•
Mrs. Desral Rahlman			Я												23		10
Arthur B. Hopper										*					#		#
Arthur B. Hopper				01											97		9
Herman L. Robbins			٠,												2		ίν.
Herman L. Robbins			4												4		4
Earl G. Calkins			Ī	12											ឌ		21
Mrs. May Herold			36												%		36
Walter Allen				я											ng.		#
Walter Allen	1			18	-	T	I								18		18
Walter Allen		1		7		ì	I								4	Ī	7
Peter J. Bagdanoff			80			ì				L					60		60
Manuel A. Ferry, Jr.			5		1	7	J			1					40		٠٠

For lettered footnotes, see last page of table.

YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(In ocres)

Description Description from a Group Field Description from a Group Field Description from a Group												Orchard							
Owner	Location	Diversion name	Grain and hav	Field		Posture		Truck			Decid				1	Vinevard	Totol	Idle	Total
1. R. and Mary Souras 1. R	number	owner	crops	crops	Mixed	Notive		craps	Apples	Peoches	Pears		Mixed and misc. fruits		tropical				
1. R. and Mary Sours											;								
1. R. and Mary Sonsa								Coon Cr		Contin	c pea								
1. R. and Mary Sonsa	13N/7E-33H1	John C. Bertoglio			87												84		87
1. R. and Mary Source	13N/7E-34A1	I. R. and Mary Souza							7								78	et.	7
Her., Julia Numes	13N/7E-34G1	I. R. and Mary Souza				9											68		9
Harry Care Factor	13N/7E-34K1	Mrs. Julia Nunes							*			12					12		12
Near, Mary O., and Batty R., Samoon 25 15 15 15 15 15 15 15	13N/7E-34P1	Mrs. Julla Nunes										13					13		13
Statuty J. and Alexy A	13N/7E-35A1	Mrs. Mary G. Ferreira			ম												23		ম
A, J. Marty John Rainey Rain	13N/7E-36J1	Stanley J. and Betty R. Samson			25												25 ^{&}	rd.	25
John Ratney 6 A <th< td=""><td>13N/8E-14A1</td><td>A. J. Marty</td><td></td><td></td><td></td><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>15</td><td></td><td>15</td></th<>	13N/8E-14A1	A. J. Marty				15											15		15
John Ratney 4 <th< td=""><td>13N/8E-18F1</td><td>John Rainey</td><td></td><td></td><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>9</td><td></td><td>9</td></th<>	13N/8E-18F1	John Rainey			9												9		9
Harold E. Hubbard JT JO John Rainey Raiph E. Braler Don L. and August Herriches James E., and August Harriches John Bateric Company John Bateric Company August Harriches John Bateric Company July August Harriches July July July July July July July July	13N/8E-18F2	John Rainey			4												7		4
John Reiney 17 18	13N/8E-19C1	Harold E. Hubbard			31												318	øj	31
Ralph E. Enzler	13N/8E-19H1	John Rainey			17												17		17
Don L. and Lilian D. Castle August Henriques James E. and Ellis an	13N/8E-22E1	Ralph E. Engler			6												6		6
August Henriques James E. and Elais W. Webb Alvin W. Musso A	13N/8E-26F1	Don L. and Lillian D. Castle			10												01		ដ
James E, and Elais W. Webb Alvin W. Weso and Electric Company — 116 126 — 126 — 125 232 142 — 120 — 1,239 27 8	13N/8E-31D1	August Henriques			2						9						88	d	60
Alvin W. Musso and Electric Company board and Charles Boy Van Tiger Alvin W. Musso 24 24 27 292 42 42 42 42 42 42 42 42 4	13N/8E-34F1	James E. and Elsis W. Webb			9												9		9
160 54 6,853 46 34 18 5 804 1,299 207 8 nut 169 86 7,617 136 0 34 25 20 1,210 1,444 218 8 narles r	13N/8E-34H1	Alvin W. Musso					į				36	71					07		07
1,69 86 7,617 136 0 34 25 20 1,444 218 8	Navada Irrig	ation District	160	75	6,853	97		34	18.	5	708	1,299	202	60	9	9	9,554	82	9,612
Domaid and Charles 159 86 7,617 136 0 34 25 20 1,4444 218 8 Donald and Charles Staples 14 14 218 8 14 14 218 8 Roy Van Tiger 102 15	Pacific Gas	and Electric Company	1	1	911	임	I	Ī	1	15	292	42	Ì	1		1	475		475
Donald and Charles	Total (oon Creek Subunit	169	88	7,617	136	0	*	25	8	1,210	1,444	218	to	3	9	11,033	28	11,091
Donald and Charles Staples Roy Van Tiger 102									er Creek	Subunit									
Staples Roy Van Tiger Roy Van Tiger	16N/6E-24L1	Donald and Charles				7.7	7		1								7.7		77.
Roy Van Tiger 102	2 / 20 / may 2 / 20 / 20	Staples	I		I	3.0					- 1		1	ı			4		35
Roy Van Tiger	TON/ (E-CINT	noy van 11ger				77											1	-	
	16N/7E-22N1	Roy Van Tiger			102												1024	तं	102

For lettered footnotes, see last page of table.

Control Cont												Orchord							
Application	Locotion	Diversion name	Grain	Field		Posture	. 0	Truck nd berry			Decid				_	Vineyard		o o	Total
According Application 15	numper	Owner	crops	crops	Mixed	Native		crops	Apples	Peaches	Pears		Mixed ond misc. fruits		tropical		irrigated	fallow	
All the properties 15 15 15 15 15 15 15 1) Deer Cree	k Subunit	(Continue	d)								
1, 0, Proceed 1, 0, Procee																			
1	16N/7E-23N1	Malcolm R. Hill			15	1					Ì						15a		15
1. C. Parceck 1. C. Parcec	16N/7E-26N1	Albert J. Nightingal			6												6		6
E. S. Bases 23 24 25 25 25 25 25 25 25	16N/7E-29EL	J. C. Psacock			69												69		69
A	16N/7E-33C1	E. S. Hass			3												6		3
Section 1.00	16N/7E-35C1	Carl Niesen			33								п				348		34
South At Breather 12 12 13 14 15 15 15 15 15 15 15	16N/7E-35D1 16N/7E-35D2																	75	79
Secrit A. Beachists 12 12 13 14 15 15 15 15 15 15 15	16N/8E-14C1				16												16		16
State Creek Subunit State Stat	16N/8E-20M1	Edwin A. Beutlsr			12												12		12
John J. Losser	16N/8E-21G1	Clifford G. Thorson			EL												ध		13
14. 0 5 1,772 4.60 9 7 4.1 0 125 0 7 0 7 0 7 0 0 2 2.146 2 2 2 2.146 2 2 2 2 2.146 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16N/8E-22H1	John J. Loossr									10						108		10
1th 0 5 1,721 460 9 7 4.1 0 175 0 7 0 0 3 2,428 67 2,4 Black 1star 1	Nsvada Irriga	tion District		7	1,449	157	8	7	41	1	165	1	٥	1		٣	2,116	7	2,119
Donner Poss Subunit State Contragated lands Contragated la	Total De	esr Creek Subunit	0	2	1,721	097	6	7	41	0	175	0	7	0	0	3	2,428	49	2,495
Shaek 26									Post Post	Subunit									
Black Ster								31—							1				
State Stat								ž –	1 trigates	d lands)									
Black 25								<u> </u>		Subunit									
Black Start Star																			
Ster	15N/7E-25H1	Clarence R. Black			%												9%		26
Let or control of cont	15N/8E-30J1	Lowell L. Elster			5												58		2
Lt	15N/8E-30K1	Lowell L. Elster			٧												54		5
Creek Subunit	Neveda Irriga	ation Dietrict	1		1,610	342		1	1	1	7	1	1	1	1	1	1,956	72	1.977
Earl Smith 6 6 0 0 0 16 0 16 0 0 0 0 0 22 0	Total D	ry Creek Subunit	0	0	1,646	342	0	0	0	0	77	0	0	0	0	0	1,992	72	2,013
Earl Smith Carl Smith Carl Smith Carl Smith Carl Smith Carl Subunit Carl Subunit		1									1								
Earl Smith 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 16 0 0 0 16 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-الة.</td><td>itch Flot</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td></td></t<>								-الة.	itch Flot					1		1			
- - <td>16N/10E-36F1</td> <td></td> <td></td> <td></td> <td></td> <td>9</td> <td></td> <td>9</td> <td></td> <td>9</td>	16N/10E-36F1					9											9		9
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pacific Gas	and Electric Company	1	1	1		1	1		1	779	1	1	1		1	16		16
	Total D	utch Flat Subunit	0	0	0	9	0	0	0	0	16	0	0	0	0	0	22	0	22

YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(in ocres)

											Orchord							
Location	Diversion name	Grain	Field		Pasture		Truck			Deciduous	snon				Vinevord	Total	idle	Total
number	gwner	crops		Mixed	Native	Meadow	crops	Appies .	Peaches	Pears	Plums	Mixed ond misc. fruits	Misc. nuts	tropical		irrigoted	follow	
							Frenc	French Corral	Subunit									
							-											
16N/7E-3E1 16N/7E-4Q1	C. R. and G. W. Maish				19											70		61
16N/8E-4E1	Joy Hilliard			40												80		60
17N/7E-26F1.	Louie F. Dudley				987			-								877		877
17N/7E-33RL	C. R. and G. W. Maish			5												54		5
17N/7E-33R2	C. R. and G. W. Maish			п												118		Ħ
17N/8E-1N1	Vincent Bellet				ĸ			~								33		23
17N/8E-1P1 17N/8E-2J1	Vincent Bellet and Edward Bellet			50												50		\$
17N/8E-281	James M. Selvester			15												15		15
17M/8E-2C1	Jamee M. Selvester			п												11		п
17N/8E-2F1	Jamee M. Selvester			6												6		6
17N/8E-901	Sert L. Burda			2									ì	ì		5		2
17N/8E-15D1	Minona Mining Co.			53	69											122		122
cust de/ mit	A The Market			1,5												71		77
17N/8E-1681	Bert L. Burda			12												12		12
17N/8E-20G1	Frank S. Reader			7												7		7
17N/8E-20N1	Francie J. Reader			7												7		7
17N/9E-27K1	D. M. Loney			7								r				12		12
17N/9E-28N1	William L. Davies			25									Ť			25		25
17N/9E-34K1	Harry M. Davis			7			6	CS					-			6		6
17N/9E-35E1	Arbogast Brothers			6												6		6
Nevada Irrigation District	tion District	-	7	079	150	1	क्ष	22		위	1	1	٦	1	1	816	1	816
Total Fre	Total French Corral Subunit	0	rt	873	359	0	ฎ	36	0	9	0	н	٧.	0	0	1,296	0	1,296
	1						French	French Dry Creek	- Figure 4									
				Ī		J					ı			Ī				ĺ
16N/5E-10B1	C. C. French S. I. Turnell		1	10							11			Ī		10		9
16N/5E-12C1	Neal W. Duckels			OI.		ij			I							07		10
								M										
For lettered f	footnotes, see last nas	ge of table					1						1	1	1			

For lettered footnotes, see last page of table.

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Diversion name Grain Gra	Dosture Posture 1	We od o w	Dry Cr.		g panu	Plume	Mixed ond misc. fruits	Misc.	tropico)	Vineyord	Total londs irrigoted 177 177 117 116 126 126 126 126 126 126 126 126 126	foliaw foliaw	10101 111 126
Neal W. Duckele Henry P. Smith Howard C. and L. E. Hichardeon Burris, Burris, Burris, and Hoxworth Jamse M. Stevene Salvador S. Callejo Arthur J. Paquetto Clint Givens J. W. Treeler Leslie W. Sille Narthn Costa Martin Costa Triggation District stian District rench Dry Creek Subunit O			DryCr		Peors Poor Peors	Pluma	Mixed misc. fruits				177 177 11 116 126 27		1 1771 11 11 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Neal W. Duckele Honry P. Smith Howard C. and L. E. Alchardeon Burris, Burris, Burris, and Burris, and James M. Stevene Salvador S. Callejo Arthur J. Paquetto Clint Givens J. W. Treeler Lealio W. Sille Narry Howard Martin Costa y Irrigation District eation District rench Dry Creek Subunit O		Fren	n Dry Creek		Sontraued)						177 117 116 116		1777 1111
Henry P. Smith Howard C. and L. E. Alchardeon Burris, Burris, Burris, and Howard Howardh Jamse M. Stevene Salvador S. Callejo Arthur J. Paquetto Clint Givens J. W. Treeler Leslic W. Sille Narry Howard Martin Costa y Irrigation District eation District rench Dry Creek Subunit O											177 11 11 14 14°		1 177 111
Henry P. Smith Howard C. and L. E. Hickardeon Burris, Burris, Burris, and Hoxworth Jamse M. Stevene Salvador S. Callejo Arthur J. Paquetto Clint Givene J. W. Treeler Leslic W. Sille Narthn Costa Martin Costa Trigstion District stion District rench Dry Creek Subunit O											177 11 116 116 27		111 11
Howard C, and L. E. Richardson Burris, Burris, Burris, and Hoxworth James M. Stevene Salvador S. Callejo Arthur J. Paquette Clint Givens J. W. Treeler Leslio W. Sille Marrin Corta Martin Corta FIREGation District ation District rench Dry Creek Subunit O											11 % y %		11 91
Burris, Burris, Burris, and Hoxworth Jamse M. Stevene Salvador S. Callejo Arthur J. Paquetto Clint Givens J. W. Treeler Leslie W. Sille Narth Costa Marth Costa Triggin District stien District Fench Dry Creek Subunit O											34 15°		16
James M. Stevene Salvador S. Callejo Arthur J. Paquette Clint Givens J. W. Treeler Leelle W. Sille Martin Costa ey Irrigation District Pench Dry Creek Subunit O											77		
Salvador S. Callejo Arthur J. Paquetto Clint Givens J. W. Treeler Leello W. Sille Narry Howard Martin Costa ey Irrigation District Gation District French Dry Creek Subunit O											23		ત
Arthur J. Paquette Clint Givens J. W. Treeler Leelle W. Sille Harry Howard Marry Howard Markin Costa ey Irrigation District Fench Dry Creek Subunit Fench Dry Creek Subunit													23
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20N/10E-33A1 Axel Nasholm	 -	1	1	77	1	١	I	1	1	1	* '	'	4 (
Total Goodyears Bar Subunit 0 0 0	0	0	0	-4	0	0	0	0	0	0	^	>	
			Greenhorn Creek		Subunit		1						
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15N/9E-10C1 A. P. Gelhaus 17N/9E-10C1	17			_							/1		7
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16N/9E-32D1 Andrew Veland 10	01		1	H					Ī	Î	g		01
16N/9E-32ML Miss Lucy Walles	#										#		#

TABLE 17 (Continued)
IRRIGATED LANDS IN
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(in ocres)

	Total	1010			222	268		71	17		305	ı ı	~ 왕	352		д	ಟ	35	2	2	m	8	8	2
			_							4														-
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	Total	irrigated			222	268		7.7	17		522	#	%	273		#	ಟ	35	8	2	m	%	R	10
	Violenty	nuckanin			1	0		-	0				1	0										
		Sub- trapicol			1	0		1	0				1	0								J		
		Misc. nuts			-	0			0				9	9									11	
		Mixed ond misc. fruits			2	N		1	0				1	0									1	П
Orchord	snoi	Plums			1	0		1	0				i	0										
	Deciduous	Pears		ned)	25	52		1	0	Subunit			1	0										
		Peoches		Creek Subunit (Continued)	1	0	unit	1	0	ive Creeks			1	0	訓									
		Apples		ek Subun	77	お	Laporte Subunit	-	0	Pleasant Grave			1	0	Pike Subunit									
	Truck	crops		Greenhorn Cr	00	to to	-[ē-	1	0	ond				0							7	7 1		
		Meadow		Ore -	~	8		1	0	Orchard				0					***************************************			1		
	Posture	Notive			22	2		17	17		37		®	57		п					m			11
	_	Mixed			티	106		1	0		189	Ħ	ম	222			13	35		5		%	8	
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		craps			7	7		1	0				1	0					8					īV
	name	owner owner			tion District	Total Greenhorn Creek Subunit		Forest Sheehan	Total La Porte Subunit		Hemphill Ditch	Tom E. Allen	Pacific Gas and Electric Company	Total Orchard-Pleasan Grove Creeks Subunit		Roy D. and Geraldine Childers, et al.	Roy D. and Geraldine Childers, et al.	Lorin N. Trubechenck	E. L. Dow	M. Kehn	Minona Mining Co.	Cunningham Ditch	George Butz	Francis J. and Buth Bartsch
	Location	лишрег	1		Nevada Irrigation District	Total Gre		20N/9E-18F1 20N/9E-18F1	Total La		12N/6E-13A1 (Auburn Ravine Subunit)		Pacific Gas an	Total Or Creeks		17N/8E-2M	17N/8E-3A1	17N/8E-4N1	17N/8E-4RL	17N/8E-6R1	17N/SE-15D1 (French Corral Subunit)	18N/8E-15A1	18N/8E-15FD	18N/8E-2001

											1							
					Dacture						Orchord					100	1	
Locotion	Diversian nome	Groin ond hav	Field		a in len		Truck ond berry			Deciduaus				_	Vineyord	lands	0.0	Totol
number	awner	craps	craps	Mixed	Notive	Meadow	crops	Apples	Peaches	Peors	Plums	Mixed and misc. fruits	Misc. nuts	trapical		irrigoted	follow	
							Pike	Pike Subunit (Continued	ontinued)	ì								
18N/9E-8ML	Wesley B. Parker						н	ଯ								র		র
Browns Valley	Browns Valley Irrigation District	1	1	-	6	Ī	1	1	1	1	1	1	1	1	1	9	1	م
Total Pi	Total Piks Subunit	7	0	109	8	0	-	ಣ	0	0	0	0	0	0	0	163	0	163
								Rocklin Subunit	aponi t									
11N/6E-25G1	George Mavrias			Я												ol		10
11N/7E-1C1	Gordon Glenn M. A. Harrie			25												55		\$2
11N/7E-2A1	M. A. Harris			ณ												13		55
11N/7E-5R1	George F. and Dixie M. Meredith			%												%		%
11N/7E-8G1	George C. Roeding, Jr.																2	-
11N/7E-10H1	Frank W. and Ora I. Croseley			60												90		100
11N/7E-10P1	R. E. and Ruby Horton						60									m '		en .
11N/7E-11C1 11N/7E-11C2	John E. Boyington			18												186		18
11N/7E-12C1	June I. Maxwell Joseph and Gladys Kholes			*												ಸ		**
11N/7E-15B1	David M. Takagishi															q†		4
11N/7E-15D1	Cecil and Soleded A. Black			6												m		n
11N/7E-16H1	F. Comria			9												9 (9 (
11N/7E-16H2	Noah and Gracie Morris			6												5		^
11N/7E-17C1	Antonio and Frances	11														ੜ .		ជ
11N/7E-17M	Ralph B. and Julia M. Aitkan			35												998		95
11N/7E-17P1	Susie I. and W. F. Ross	to	I	19												27		22
11N/7E-19R1	Guy Schoonderwoerd			12												ដ		ส
For lettered	For lettered footnotes, eee last page of table.	page of tab	le.															

TABLE 17 (Continued)

IRRIGATED LANDS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(In ocres)

												Orchard							
Company Comp	Location		Grain and hav			Posture		Truck			Decid					/inevord	Total	ldle or	Total
1, c, John St. 22	number		crops		Mixed	Native		crops		Peoches	Pears		Mixed and misc. fruits				irrigated	fallow	
1. C. Lexis and 22 22 22 22 22 22 22								- cily	Cubunda C	- Continued									
1. Co. State 2.																			
1. C. Lette and L. C. Lette and Marie and Section 200	1/7E-20G	Joe Boisa			ដ												22		22
Provide the late of the late		I. C. Lewis and L. E. Wyatt			28												28		**
December 12 12 13 15 15 15 15 15 15 15		Ruben J. Ruhkala			6				7								6		6
Each L. Louiscourse 12 13 15 15 15 15 15 15 15	11N/7E-20P2	George L. and Marion E. Robson			10												10		10
Physical Jr. Boyy and Mona J. 23 24 25 25 25 25 25 25 25	N/7E-20P3	Gordon I. and Beth L. Gulbranson			12												ដ		12
Mycrot, and Man J. 11 12	11N/7E-27L1	Edward J., Boy, and K. Brown			33												33		8
tranger	11N/7E-Z/ML	Myron J. and Mona J. Stsphens			п												я		#
Rest. Marches 4, Natches 5, Natches 6, Natches 6, Natches 6, Natches 6, Natches 6, Natches 7, Natches 7, Natches 9, Nat	N/7E-34H1	Harold E. Wentsch Thomas J. Kslley			es .												8		ಬ
No. 1,	N/8E-6H1	Basil T. Rogers			7												q†		7
Heat, Alice Buy Heat, Alic	N/8E-601	Mrs. Martha A. Brennan										01					10b		OI .
Prent Polities Pren	N/8E-7B1	Mrs. Alice Day									or						10b		10
Duckith Brown 6 33	N/8E-7N1	Frank Poirier								17							17		17
Ervan E. Draper 6 14 15 15 15 15 15 15 15	N/8E-18B1	Dwight Brown	9		33												39		39
Even E. Draper Arthur L. Traylor Arthur L. Traylor Theodore M. Navae Brian B. and Emma Nae Hughes Oddin Subunit 90 42 1,971 62 0 55 28 207 1,778 4,074 2,549 5 1138 6 11,069 11,069 11,069 11,069 11,069 11,069 11,069 11,069 11,069 11,069	N/8E-29N1	James S. McAdoo			7												7		7
Arthur L. Traylor Theodore M. Navas Theodore M. Navas Brian B. and B	N/7E-32N1	Ervan E. Draper John H. Carr			9												9		9
Theodore M. Navas 11	N/7E-33E1	Arthur L. Traylor			19												19		19
Priori B. and Emma Mase Hughes 62 62 62 62 62 62 62 6	N/7E-36E1	Theodore M. Navas			я												7		ជ
John A. Patton 6 28 207 1,784 4,074 2,549 5 138 29 11,069 11,798 4,074 2,549 5 138 29 11,069 113	N/7E-36ML	Brian B. and Emma Mae Hughes			100												₩		∞
65 42 1,488 62 Q 56 28 207 1,784 4,004 2,549 5 138 29 11,069 113 90 4,2 1,971 62 0 59 28 224 1,778 4,1074 2,549 5 138 29 11,069 113	N/TE-36N1	John A. Patton			9												9		9 .
90 42 1,971 62 0 59 28 224 1,798 4,074 2,549 5 138 29 11,069 113	cific Gas a	nd Electric Company	59	745	384.1	62	9	56	8	202	1,784	790 7	2,549	7	138	क्ष	10,517	106	10,623
	Total Ro	cklin Subunit	&	777	17641	62	0	65	28	7227	1,798	4,074	2,549	٧.	138	82	11,069	113	11,182
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	Total			18	15	33		8	7 8	3		2	;	a	178	~	4	17	eJ.	4	777	18	12	<u>ម</u> :	8	15	
	idle or fallow				1	0			1 9	>		*	_								_						
	Total lands irrigated			18	15	33		82	7	3				ដ	178	<i>s</i>	4	17ª	E.	4 4	424	18	128	134	8	12	
	Vineyard				1	0			1 '	>																	
	4.0	tropical			Í	0			"	>																	
		Misc. nuts			- 1	0			'	0																	
		Mixed and misc. fruits			1	0			1 '	>													1	١			
Orchard		Plums			١	0			1	0													I				
	Deciduous	Pears			1	0		d	1	0										-			12	ĺ			
		Peaches	Subunit		1	0	Subunit		T	0	Subunit												l				
		Apples	Sierro City S		١	0	Washington S		1	0	Creek												l				
	Truck	crops	Sie		-	0	— s		1	0	- Nort												ļ				
		Meadow			ı	0			1	0														b			
	Pasture	Notive		18	11	33			7	2								m	64								
		Mixed			1	0		23	1	బ				ដ	178	٠,	4	7.	1	4	775	18		ĘŢ	8	12	
	Field					°			1	0																	
	Grain.	crops				0				0																	
	Diversion name or owner			MANAGER Photosof I Formation	20N/12E-22R1 Albert Anderson	Total Sierra City Subunit		16N/10E-29F1 Mason J. Meredith	18N/10E-31P1 Cordelia Coombes	Total Washington Subunit		M. Walkenhorst.	Jr.	C. R. and M. L.	Ted C. Buck	C. N. and Bernice G. Robinson	Carl C. Wollam	Dennie and Murial	Murray and Edith E. Young	P. T. Clay	Daniel O. and M. W. Newton	George and Charles Smith	Mrs. Katie M. Whaeler	G. W. Brewer	J. H. Ball	N. O. Pingres	
	Location	number		rase arry noc	20N/12E-22R1	Total Sie		18N/10E-29P1	18N/10E-31P1	Total Wa	h	TAN/8F_5.11	Tax and later	LAN/8E-5J2	L19-38/141	14N/8E-17L1	14N/8E-20GL	LN/8E-20K1	14N/8E-20R1	14N/8E-21H1	14N/8E-22P1	15N/8E-3E1	15N/8E-12P1	15N/8E-13F1	15N/8E-14J1	15N/8E-15MI	

TABLE 17 (Continued)

IRRIGATED LANDS IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT, 1957

(In acres)

_													_											
	Totol			19	2	142	9	77	773	7	79	7	19	2	54	12	11	77	1,885	2,658	44,413			
	ldle or fallow																		75	%	529		1	
	Totol lands irrigated			19	45	142ª	9	77	438	2	62	2	19	2	54	12	я	77	1,864	2,632	43,884			TU
Vineyord																	Ī		0	38				
	Sub- tròpical																			0	124			12
		Misc. nufs																	7	7	33			0
		Mixed and misc. fruits																****	9	9	2,970			
Orchard	snor	Plums																	위	10	7,512			Dall
	Deciduous	Pears	(F																226	238	5,317			1
		Peoches	(Continue																1	0	281			
		Apples	Wolf Creek Subunit (Continued)			1													69	69	318			
	Truck and berry	crops	Wolf Cre																-	0	158			
		Meadow																		0	107		pany. strict.	
	Posture	Notive														4	7	5	733	454	2,798		District. Lectric Con Egation Dis	
		Mixed		19	٧.	142	9	7	43	7	42	7	19	2	75	₩	4	6	1,113.	1,848	23,433		Irrigation Gas and E	
	Field	crops																		0	777.		om Nevada	
	Diversion name Grain or and hoy crops																		1	0	348	1	water fro water fro water fro	
				D. M. Mefford	Leo Flury	J. W. Stevenson	Leo Flury	Isle H. Jordan	Victor Garofalo	D. M. Mefford	Andrew M. Harvey	Charles A. Morandi	Charles A. Morandi	Antone Mondoni	Malcolm Hammill	Manuel Gallino	Newmont Mining Co.	Newmont Mining Co.	n District'	Total Wolf Creek Subunit	RIVERS	1	Meceived empilemental purchased water from Mevnda Irrigation District. Seceived supplemental purchased water from Facific Gas and Electric Gonpary. Received supplemental purchased water from Browns Valley Irrigation District. Meceived partial irrigation.	
Locotion			15N/8E-22E1 D.		15N/8E-22ML J.	15N/8E-22F1 Lec	15N/8E-22R1 [Is]	15N/8E-23M1 Vtc	15N/8E-27Cl D.	15N/8F-28Al And	15N/9E-17M1 Chi	15N/9E-18Pl Cha	15N/9E-18R1 Ant	16N/8E-24K1 Mal	16N/8E-26G1 May	16N/8E-26Pl Nev	16N/8E-26H1 Nev	Nevada Irrigation District'	Total Wolf	TOTAL YUBA-BEAR RIVERS HYDROGRAPHIC UNIT		a. Heceived supply. Received supply. G. Received supply. G. Mcceived parties. 40 acree rec		

CHAPTER IV. LAND CLASSIFICATION

Calculations of future water requirements will be based in a large part on a classification of lands with regard to their potential for irrigated agricultural and recreational development. The results of a land classification survey conducted to determine this potential in the Yuba-Bear Rivers Hydrographic Unit are presented in this chapter.

Lands were not classified in this survey with respect to their potential for urban development. The use of lands for urban purposes is closely related to population at any given time, and it is planned to defer designation of these lands until estimates of population and related economic studies are made in connection with determination of future water requirements.

The former Division of Water Resources made a reconnaissance classification of lands of the State which was reported in State Water Resources Board Bulletin No. 2, "Water Utilization and Requirements of California," dated June 1955. A similar reconnaissance classification, but with more detail, was also reported in the Division of Water Resources Bulletin No. 56, "Survey of Mountainous Areas," dated December 1955, and the former Water Resources Board's Bulletin No. 10, "Placer County Investigation," dated June 1955. Bulletin No. 10 entailed only that portion of the Yuba-Bear Rivers Hydrographic Unit in Placer County. A still more detailed Land classification survey was reported in Department of Water Resources

Bulletin No. 58, "Northeastern Counties Investigation," dated June 1960, covering that portion of the Yuba-Bear Rivers Hydrographic Unit in Yuba, Plumas, Butte, and Sierra Counties. The present investigation uses the same basic land classification standards which were used in Bulletin No. 58. However, additional classes of recreational lands have been included, along with some minor modifications to the irrigable agricultural land standards. In Yuba Plumas, Butte, and Sierra Counties, where the land classification survey was already completed for Bulletin No. 58, the basic classification reported therein was modified to meet the standards for this investigatio along with a remapping of the present urban lands.

The lands within Beale Air Force Base were classified as to their potential for irrigated agriculture, regardless of their present military status.

Results of the land classification survey are shown on sheets 1 through 23 of Plate 3, "Classification of Lands;"

The totals of areas in each classification are shown in Table 19

Methods and Procedures

The general methods and procedures used in field mapping and tabulation of information were essentially the same as those described for the land use survey in Chapter III. An example of land classification delineations on an aerial photograph is shown on page 163.

The standards used in the classification of lands are given in detail in Table 18.



Example of Land Classification Delineated on Aerial Photograph (See page 164 for symbol explanation)

TABLE 18

LAND CLASSIFICATION STANDARDS

Land class: symbols:

Characteristics

Irrigable Lands

- V These lands are level or slightly sloping and vary from smooth to hummocky or gently undulating relief. The maximum allowable slope is 6 percent for smooth, reasonably large-sized bodies lying in the same plane. As the relief increases and becomes more complex, lesser slopes are limiting. The soils have medium to deep effective root zones, are permeable throughout, and free of salinity, alkalinity, rock, or other conditions limiting crop adaptability of the land. These lands are suitable for all climatically adapted crops.
- H These are lands with greater slope and/or relief than those of the V class. They vary from smooth to moderately rolling or undulating relief. The maximum allowable slope is 20 percent for smooth, reasonably large-sized bodies lying in the same plane. As the relief increases and becomes more complex, lesser slopes are limiting. The soils are permeable, with medium to deep effective root zones, and are suitable for the production of all climatically adapted crops. The only limitation is that imposed by topographic conditions.
- These are lands with greater slope and/or relief than those of the H Class. They vary from smooth to steeply rolling or undulating relief. The maximum allowable slope is 30 percent for smooth, reasonably large-sized bodies lying in the same plane. As the relief increases and becomes more complex, lesser slopes are limiting. The soils are permeable, with medium to deep effective root zones, and are suitable for the production of all climatically adapted crops. The only limitation is that imposed by topographic conditions.

Any variation in the foregoing, as defined, is indicated by use of one or more of the following symbols:

W - Indicates the presence of a high water table, which in effect limits the present crop adaptability of these lands to pasture crops. Drainage and a change in irrigation practice would be required to affect the crop adaptability.

TABLE 18 (Continued)

LAND CLASSIFICATION STANDARDS

Land class:

Characteristics

- s Indicates the presence of an excess of soluble salts or exchangeable sodium in slight amounts, which limits the present adaptability of these lands to crops tolerant to such conditions. The presence of salts within the soil generally indicates poor drainage and a medium to high water table. Reclamation of these lands will involve drainage and the application of small amounts of amendments and some additional water over and above crop requirements in order to leach out the harmful salts.
- ss Indicates the presence of an excess of soluble salts or exchangeable sodium in sufficient quantity to require the application of moderate amounts of amendments and some additional water over and above crop requirements in order to effect reclamation.
- h Indicates very heavy textures, which make these lands best suited for production of shallow-rooted crops.
- Indicates fairly coarse textures and low moistureholding capacities, which in general make these lands unsuited for the production of shallow-rooted crops because of the frequency of irrigations required to supply the water needs of such crops.
- p Indicates shallow depth of the effective root zone, which limits use of these lands to shallow-rooted crops.
- r Indicates the presence of rock on the surface or within the plow zone in sufficient quantity to prevent use of the land for cultivated crops.

Urban Lands

UD - The total area of cities, towns, and small communities presently used for residential, commercial, recreational and industrial purposes.

Recreational Lands

RR - Existing and potential permanent and summer home tracts within a primarily recreational area. The estimated number of houses, under conditions of full development, is indicated by a number in the symbol, i.e., RR-3 is suitable for three houses per acre.

TABLE 18 (Continued)

LAND CLASSIFICATION STANDARDS

Land class: symbols: Characteristics

- RC Existing and potential commercial areas which occur within a primarily recreational area and which include motels, resorts, hotels, stores, etc.
- RT Existing and potential camp and trailer sites within a primarily recreational area
- PP Existing county, state, federal, and private parks, race tracks, and fairgrounds.

Miscellaneous Lands

- Presently forested lands, or lands subject to forest management, which meet the requirements for irrigable land but which, because of climatic conditions and physiographic position, are better suited for timber production or some type of forest management program rather than for irrigated agriculture.
- Vm Swamps and marshlands which are covered by water most of the time and usually support a heavy growth of phreatophytes.
- N Includes all lands which fail to meet the requirement of the above classes.

Major Categories of Land Classes

As indicated in Table 18 the lands mapped have been grouped into four major categories: irrigable lands, urban lands recreational lands, and miscellaneous lands. Additional notes with respect to the survey of lands in 1957 are set forth in the following paragraphs.



Recreation on Lake Van Norden near Soda Springs



Boating on Lake Vera near Nevada City

Irrigable Lands

Irrigable lands are grouped in appropriate classifications according to their suitability for development under irrigated agriculture and their crop adaptability. Presently irrigated lands are included within these classifications, but urban lands and recreational lands are not classed as to irrigability. In the survey the time element with respect to when the lands might be developed did not enter the determination of class, except that suitability for irrigated agriculture was necessarily considered in light of present agricultural technology.

There are many factors which influence the suitability of land for irrigation development. Since soil characteristics and the physiography of the landscape are the most stable of these factors, they were the only ones considered in the survey in classifying lands to their irrigability. The characteristics of the soil were established by examination of road cuts, ditchbanks, and the material from test holes, together with observations of the type and density of native vegetation and crops. Representative slopes throughout the area were measured with a clinometer. Other aspects, such as those economic factors related to the production and marketing of climatically adapted crops, the location of lands with respect to a water supply, and climatic conditions, were not considered in the basic classification. These latter factors are very important in estimating the nature of future cropping patterns and practices, and will be given due consideration when estimates are made of future water requirements.

Urban Lands

It is recognized that future urban expansion will encroach upon some of the irrigable lands. The location and extent of this type of development is a function of many variables. Because this land classification survey is an inventory of relatively unchanging physical conditions, no attempt was made to locate the areas of urban encroachment. Therefore, only those lands devoted to urban uses in 1957 are designated as "urban" lands.

Recreational Lands

Present trends indicate an expanding rate of use and demand for recreational facilities throughout the State. In view of these trends and the ever-increasing population, it is recognized that there will be a demand for substantial land areas for recreational purposes. This is particularly true of the mountainous regions where this type of development is expanding rather rapidly at the present time.

Generally speaking, all mountainous lands are suitable for some recreational use such as hunting, fishing, and similar outdoor activities. However, for purposes of this survey, lands classified for recreational use were limited to those which are now or in the future are expected to be used intensively for permanent and summer home tracts, commercial recreational areas, camp and trailer sites, and parks outside of urban areas. These are lands requiring intensive water service.

Primary considerations for classification of home tracts and camp and trailer sites were such physical factors as soil depth, slope, and rockiness; such aesthetic values as view, nearness to lakes, streams or seashore, or density and type of forest canopy suitable for the respective uses; and the plans of United States and California forest officials. An important factor in location of camp and trailer sites is the availability of a water supply, but isolation from existing roads did not influence site selection.

Miscellaneous Lands

Three types of lands are included as miscellaneous lands. These are: (1) irrigable forest management lands, (2) swamps and marshlands, and (3) other lands.

Irrigable forest management lands are those forested lands, rangelands, or lands subject to some type of forest management which have physical conditions making them susceptible to irrigation development but which, because of climatic conditions and physiographic position, are better suited for and are expected to remain under, their present uses.

Swamps and marshlands are those lands which generally have water standing on them and usually support a heavy growth of tules or other phreatophytes.

Approximately 801,000 acres, or 64 percent of the area of the hydrographic unit, are other lands, which failed to meet the requirements for the irrigable, urban, recreation, irrigable forest management, or swamp and marsh classification.

TABLE 19
CLASSIFICATION OF LANDS
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT
(in acres)

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neous		۳۸	0	10	0	0	0	0	8	ଷ ୍ପାଷ	٥	0	0	0
Miscellaneous		LL	13,710 4,050 17,760	0	200 600 10,760	0	٥	0110	0	7,710	15,250	0	5,070	2,540
		Totol	1200	0	60 1,750 1,810	0	0	୦ ଅନ୍ତ	8	2 5 c	2,540 1,340 3,880	0	2,3000	약
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Recreational londs		RR	° 8 8	0	0 1,600 1,660	0	0	0	0	808	1,260 1	0	180 2,120 2,120	0
		RC	0	0	0 0 9 9	0	0	2/20	8	505	230 1200 1420	0	999	8
Present	arbon londs	1957	88/2	1,600	0088	0	٥	20 170 170	580	1,260	0	٥	150 150 150 150 150 150 150 150 150 150	950
	Total		054 088	18,440	20 1,010 1,030	24,740	11,500 10,670 3,040 25,210	8,370 10,340 18,710	45,770	20,510	1,460	19,640 14,120 33,760	288	14,310
		Mpr	0	8	0	1,000	2,340 1,830 800 4,970	360	3,280	2,230	0	1,870	0	950
	stoping	Mr	0	0	0	0	8008	23/8	0	808	0	0	0	9
	Steeply	ď₩	0	6,170	٥	1,290	3,900 2,930 8,350	2,680 470 3,150	12,460	4,790	0	6,850 9,830	0	1,600
spuo		2	0	280	0 00 001	0	800 8	1,350 6,610 7,960	2,560	4,550	0	808	3 518	6,930
able agricultural lands		Hpr	0	580	0	1,030	1,400	350 170	1,790	1,350	0	2,160 1,280 3,440	0	989
poble og	loping	Ĭ	8 08	9	0	0	0	0	8	130	0	23 2	0	8
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		I	3 0 3	530	0 2 8 8 8	8	8000	730	2,520	3,130	0	1,680	^오 있음	3,370
		× >	8888	8	008 8	0	ର ୍ ଚ	808	0	ଛ୍ନାଞ୍ଚ	1,460	5 old	용되음	8
	Smooth lying	۸	0	1,980	0	8,860	350 350	120	4,680	808	٥	808	0	0
	Sm	>	0	049	0	1,240	38085	100 250 350	2,140	8200	0	1,250	0	100
	Subunit		Alleghany Nevada County Sierra County Total	Auburn Ravine Placer County	Bullards Ber Butte County Sierra County Yuba County Total	Camp Beale Yuba County	Comp Far West Nevada County Placer County Yuba County Total	Combie Nevada County Flacer County Total	Coon Creek Placer County	Deer Greek Nevada County Yuba County Total	Donner Pass Nevada County Placer County Total	Dry Creek Nevada County Yuba County Total	Dutch Flat Nevada County Placer County Total	French Corral Nevada County

TABLE 19 (Continued)
CLASSIFICATION OF LANDS
YUBA-BEAR RIVERS HYDROGRAPHIC UNIT
(In acres)

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	Total	0000	750	0	300 170 170	٥	2013 2013 3013 3013 3013 3013 3013 3013	0	2,760	110	0	3,300 9,360 9,360 9,360	14,420	
Recreational lands	RT	٥	00 000	0	8808	0	° 8.8 8	0	1,110	39	0	1,380 500 1,470 220	3,590	
Recreat	RR	0 0 000	900	0	82° 128	٥	80 kg °	0	1,530	8	0	2,600	9,950	
	RC	٥	506	0	٥	0	0000	0	120	0	٥	13003300	88	
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	Tatat	1,940 29,500 31,440	410 0 110	5,640	FI888	5,420	3,080 3,040 6,340	30,040	1,410	1,120	27,090	2,540 2,540 75,490	314,960	
	Mpr	390 2,480 2,870	٥	0	٥	0	1,40 380 380	049	0	0	1,580	9,840 6,790 0 6,150	22,780	
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Steeniv		8,550 9,490	0	550	٥	&	570 0 0 0 0 0 0 0 0	3,800	0	0	6,250	27,740 25,910 0	68,460	
spuo	Σ	2,5,6	808	3,530	30013	0	1,560 130 880 2,570	004	100	091	9,170	27,960 10,030 40 320 4,120	42,470	
agricultural lands	Hpr	0 1,70 1,730	0	0	٥	190	120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,570	0	0	840	7,070 4,880 0,370	16,320	
rgable agr	ĭ	2,580	0	10	٥	0	% % % % % %	750	8	0	140	2,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,130	
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	I	2,130 2,200	3 013	1,420	8888	0	82 88 1,550	3,770	8	590	5,750	17,640 8,700 20 170 3,440	29,970	
	*	00000	8008	8	१९८०	10	88812	8	1,270	8	33	2,430 380 2,020 530	5,360	
Smooth Ivino	Λρ	००११	0	0	0	1,310	٥	1,460	0	0	8	280 9,770 9,770 8,930	18,980	
Sms	>	o 8 8 8	0	29	٥	330	8 0 5 0	2,050	0	9	89	2,340 5,490 0 2,710	10,540	
Subusi		French Dry Creek Butte County Nevada County Yuba County Total	Goodyears Bar Slerra County Yuba County Total	Greenhorn Creek Nevada County	la Porte Plumas County Sierra County Yuba County Totel	Orchard-Pleasant Grove Creeks Placer County	Pike Nevada County Sierra County Yuba County Total	Rocklin Placer County	Sierra City Sierra County	Washington Nevada County	Wolf Creek Nevada County	BUTTE COUNTY NEVADA COUNTY PLACER COUNTY PLAMAS COUNTY STERRA COUNTY YEAR COUNTY	TOTAL	

CHAPTER V. SUMMARY

The Yuba-Bear Rivers Hydrographic Unit comprises the 1,955-square-mile (1,251,120 acres) drainage area of the Yuba and Bear Rivers and minor streams draining the foothills between the Yuba River and the American River above the Sacramento Valley floor. Most of the terrain in the unit is mountainous, but valley and foothill lands constitute about 40 percent of the total area. Agriculture is the largest single commercial enterprise in the unit. Approximately one-tenth of the lands presently devoted to agriculture are dry-farmed; nine-tenths are irrigated. Major irrigated crops are pasture and deciduous orchard. Lumbering, recreation, and hydroelectric power development are also important local activities. The largest communities in the area are Auburn, Grass Valley, and Nevada City.

Water Use

A survey was made of water uses supplied by diversion of surface water during 1957 and 1958, the object of which was to locate and obtain data with respect to all diversions of more than 10 acre-feet per year.

Continuous or periodic measurements were made on approximately 45 percent of the 374 diversions located during the year of survey. Twelve significant hydroelectric powerplants are located in the unit, but most of the diversions (275) are used for irrigation purposes. The largest diverters of water in the unit are Pacific Gas and Electric Company and Nevada Irrigation District.

The basis of water right for each diversion was determined insofar as possible. Most of the diversions are based on appropriative rights, many of which were established prior to the enactment of the Water Commission Act (1914), and are not of record, since such rights could be established simply by actual diversion and use of water. Generally, there are no official records of the riparian rights.

The Water Commission Act, now codified in Divisions 1 and 2 of the Water Code, requires formal application for the appropriation of water. As of May 29, 1959, a total of 470 currently valid applications had been made under provisions of the act in the Yuba-Bear Rivers Hydrographic Unit. Permits or licenses had been granted for 392 of these applications. Fifty-two of these applications were pending with the board, and 26 were incomplete.

Land Use

A detailed land use survey was conducted in the Yuba-Bear Rivers Hydrographic Unit during 1957. The areas of land devoted to present uses are summarized below and portrayed pictorially in Figure 1.

<u>Use</u>	Area, in acres
Agricultural lands	
Lands irrigated in 1958	43,880
Lands normally irrigated but idle or fallow in 1957	530
Meadowlands	5,260
Dry-farmed lands	4,900
Total agriculture	54,660
Recreational lands	1,540
Urban lands	8,020
Native vegetation and marshlands	1,186,990
Total area of unit	1,251,120

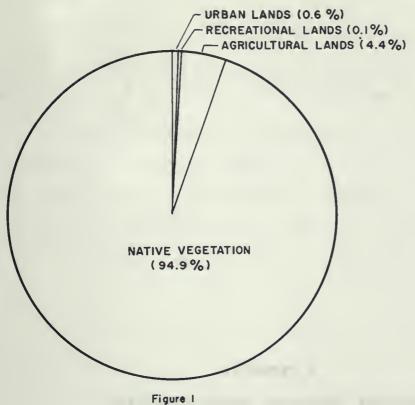
Of the 43,880 acres of land irrigated, 43,780 were irrigated with surface water and 100 with ground water.

Land Classification

A detailed agricultural and recreational land classification survey was conducted in the unit in 1957. In Nevada and Placer Counties a complete new survey was conducted, while in Butte, Plumas, Sierra, and Yuba Counties the agricultural land class reported in Bulletin No. 58 was utilized with some minor modifications. Results of the survey are summarized below and presented pictorially in Figure 2.

Classification	Area, in acres
Irrigable agricultural lands	314,320
Present urban lands	8,020
Recreational lands	14,420
Miscellaneous lands	
Irrigable forest management lands	113,130
Other lands (including swamps and marshlands)	801,230
Total area of unit	1,251,120

About 92 percent of the irrigable agricultural lands are located in the Auburn Ravine, Camp Beale, Camp Far West, Combie, Coon Creek, Deer Creek, Dry Creek, French Corral, French Dry Creek, Rocklin, and Wolf Creek Subunits. Approximately 97 percent of the recreational lands are located in the higher mountainous areas of the Alleghany, Bullards Bar, Donner Pass, Dutch Flat, French Dry Creek, Goodyears Bar, La Porte, Pike, and Sierra City Subunits. The majority of the irrigable forest management lands are located in the Alleghany, Bullards Bar, Deer Creek, Donner Pass, Dutch Flat, French Dry Creek, Greenhorn Creek, and Washington Subunits.



1957 LAND USE

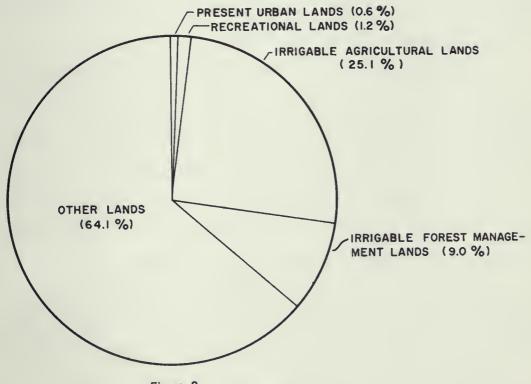
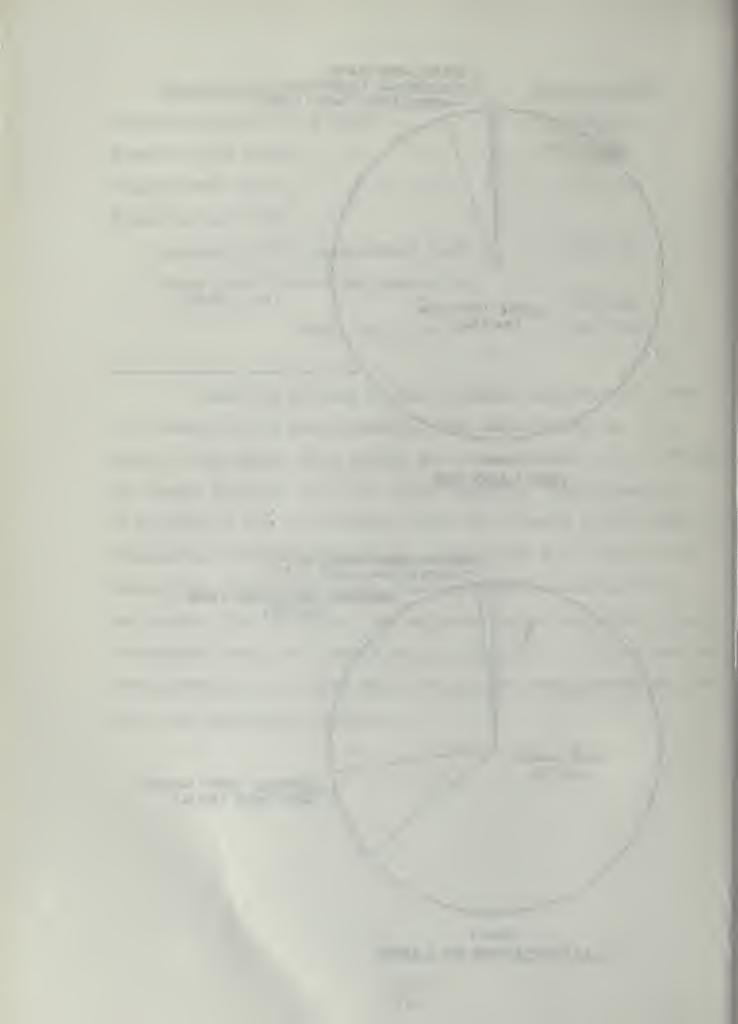


Figure 2
CLASSIFICATION OF LANDS



APPENDIX A

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STATEWIDE WATER RESOURCES AND WATER REQUIREMENTS PROGRAM

APPENDIX A

STATEWIDE WATER RESOURCES AND WATER REQUIREMENTS PROGRAM

California's major water problem today is that of development and delivery of supplemental water supplies to meet increasing water requirements throughout the State. The problem involves (1) the regulation of seasonal and cyclic fluctuation of streamflow to meet demand schedules in the areas of origin, and (2) the transmission of regulated surplus flows over long distances to areas of deficiency. The development and long-distance transfer of water is currently accomplished by such major facilities as the federal Central Valley Project and the Colorado River Aqueduct of The Metropolitan Water District of Southern California. However, such development and transfer will be considerably broadened in scope by the State Water Facilities.

Consumptive water requirements of the State on a basin-wide basis were estimated in State Water Resources Board Bulletin No. 2, "Water Utilization and Requirements of California," June 1955. However, to provide for local water needs while considering specific export projects, more detailed information must be made available on present and projected future water requirements of the areas in which the projects are to be built. This has necess_tated the considerably more detailed collection and analysis of data on hydrology, land use and land capability, and economics.

Recognizing that additional information is needed if the water needs of areas of origin are to be adequately protected in large-scale water development projects, the 1956 Legislature authorized an investigation to determine the water resources and water requirements of the respective watersheds in the State. The authorization is contained in Chapter 61, Statutes of 1956, as amended by Chapter 2025, Statutes of 1959. This legislation is codified in Section 232 of the Water Code as follows:

- "232. The Legislature finds and declares that in providing for the full development and utilization of the water resources of this State it is necessary to obtain for consideration by the Legislature and the people, information as to the water which can be made available for exportation from the watersheds in which it originates without depriving those watersheds of water necessary for beneficial uses therein. To this end, the department is authorized and directed to conduct investigations and hearings and to prepare findings therefrom and to report thereon to the Legislature at the earliest possible date with respect to the following matters:
- (a) The boundaries of the respective watersheds of the State and the quantities of water originating therein;
- (b) The quantities of water reasonably required for ultimate beneficial use in the respective watersheds;
- (c) The quantities of water, if any, available for export from the respective watersheds;
- (d) The areas which can be served by the water available for export from each watershed; and
- (e) The present use of water within each watershed together with the apparent claim of water right attaching thereto, excluding individual uses of water involving diversions of small quantities which, in the judgment of the Director of Water Resources, are insufficient in the aggregate to materially affect the quantitative determinations included in the report.

"Before adopting any findings which are reported to the Legislature, the department shall hold public hearings after reasonable notice, at which all interested persons may be heard."

For purposes of this investigation, the State has been divided into major hydrographic areas. These areas, in turn, have been subdivided into hydrographic units generally comprising watersheds of individual rivers. These watersheds are being field surveyed in some detail, and, where previous detailed studies have been made, the information will be brought up to date. Water resources and water requirements will be determined and reported in a bulletin for each of the hydrographic areas. Since it requires many years to gather sufficient data to make adequate analyses of water resources and water requirements, and, in order to make the data on present land and water use available when they are most useful, surveys of land and water use are being made and published separately for each of the hydrographic units. Bulletin No. 94-3, "Land and Water Use in Yuba-Bear Rivers Hydrographic Unit," is the third of a series reporting the results of these surveys.

At a future date, estimates, largely based on the land and water use surveys, will be made of quantities of water reasonably required for future beneficial use in each watershed. The quantity of water potentially available for export from each watershed will be determined after allowances are made for the satisfaction of the local requirements and prior rights to divert water to other areas. For those watersheds in which no exportable water is available, the water supply deficiency will be determined. These estimates will be published as they become available, in such form as to make possible a county-by-county determination.

The calculations of future water requirements will be based, in part, on predicted future land uses derived from land classification surveys, economic studies, population forecasts, industrial and agricultural development, and recreational needs. Agricultural water requirements will be based on unit water use by the various predicted crop types; urban and recreational requirements on per capita water use values; fish and wildlife requirements on minimum streamflow needed or on water demands for wildlife areas; and industrial water requirements on measured water deliveries to various types and sizes of industries now existing. In forecasting future industrial development, water quality problems will be given full consideration.

Water resources will be determined from records of all stream gaging stations, including new stations which were established for this and other investigations of the department. The new stations were generally constructed on streams which originate in the smaller watersheds for which runoff data are necessary but for which no data have been available. As part of this investigation, two new stream gaging stations were added to the existing network of stations in the Yuba-Bear Rivers Hydrographic Unit. These stations were installed:

Stream gaging station

Wolf Creek near Wolf

Date installed

May 28, 1957

Deer Creek near Nevada City

June 19, 1957

APPENDIX B

REPORTS ON RELATED INVESTIGATIONS
AND OTHER REFERENCES

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APPENDIX B

REPORTS ON RELATED INVESTIGATIONS AND OTHER REFERENCES

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APPENDIX C LEGAL CONSIDERATIONS

LEGAL CONSIDERATIONS

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APPENDIX C

LEGAL CONSIDERATIONS

There are set forth in the following paragraphs brief general statements with respect to the California law of water rights to supplement and to provide a background for information on water rights contained in Chapter II.

Also included are comments on litigation concerning local water rights and a tabulation of currently valid applications to appropriate water within the Yuba-Bear Rivers Hydrographic Unit filed with the State Water Rights Board.

California Water Rights

All rights to water in California are usufructuary. They consist only in right to the benefitcial use of the water. Water itself is subject to ownership only when it has been taken into actual possession. However, the owner of a usufructuary right is entitled to have the water in the surface stream flow to the point of his diversion, or to his riparian lands, without the unlawful interference by upstream diverters who have rights which are inferior to his.

Riparian and appropriative rights to surface water are recognized in California. Riparian rights are paramount until lost or impaired by grant, condemnation, or prescription. Correlative rights to ground water, also recognized in California, are analogous to the riparian rights to surface waters.

all water rights, both surface and underground, are subject to the doctrine of reasonable use expressed in Section 3 of Article 14 of the State Constitution. This doctrine limits the rights to the quantity of water reasonably required for beneficial use and prohibits waste, unreasonable use, or unreasonable methods of use or diversion.

Riparian Rights

Riparian rights are part and parcel of riparian lands, i.e., lands contiguous to a natural watercourse within a watershed. They extend only to the smallest tract, so situated, held within the continuous chain of ownership. Each riparian right is correlative with each and every other such right within the watershed. In the event of insufficient water for all, the available supply must be prorated, except that an upper riparian owner may take the whole supply if necessary for domestic use. Riparian rights extend to future reasonable requirements for beneficial use upon riparian lands.

Riparian rights do not authorize use of water on nonriparian lands, nor do they permit the seasonal storage of water. They are not created by use nor are they lost by nonuse. They do not prevent temporary appropriation by others of water not presently needed on riparian lands. The rights may be severed or lost, in the whole or in part, by grant or condemnation, and they cannot thereafter be restored. A parcel of land loses its riparian right when separated from contact with a stream by conveyance, unless the right is

specifically reserved by the grantor. Riparian rights cannot be transferred for use upon another parcel of land. A riparian right may also be lost by prescription.

Riparian rights are superior to appropriative rights, except in the case of rights founded upon appropriations of water upon vacant public lands initiated before valid steps were taken to remove the riparian lands from the domain of the United States, regardless of whether the appropriative diversions and/or the lands they serve are upstream or downstream from the riparian lands.

Appropriative Rights

The miners of the early gold-seeking period established the doctrine of appropriative water rights in California. The oldest of the procedures to perfect an appropriative right required simply that a diversion be made and the water be put to beneficial use. The date of the right began with its beneficial use.

The first provision for recordation as a step in perfecting an appropriative water right was contained in the Civil Code enacted in 1872, Section 1415. The procedure under this section was the posting of a notice of intention at or near the place of proposed diversion, describing the source of the water, the location of the proposed diversion, the amount to be diverted, the use to be made, and the place of

use. This notice was to be signed, witnessed, and a copy filed with the recorder in the county in which the proposed diversion was located. The appropriative right thus initiated became perfected when the water was put to beneficial use, but the right related back to the time the notice was posted. While the 1872 Civil Code procedure was the first to require recordation, it was not an exclusive procedure in that an appropriative right could be perfected to the extent of beneficial use simply by diverting the water and making beneficial use of it.

The Water Commission Act, on the other hand, establised an exclusive procedure for the appropriation of water. This enactment requires that a permit be obtained from the State of California before water can be appropriated. The procedure as formerly contained in the Water Commission Act, and as subsequently amended is now codified in the Water Code Sections 1200-1801. It requires that an application to appropriate water first be submitted to the State Water Rights Board. Upon the approval of the application, a permit is issued so that the applicant can construct the features necessary to put the water to beneficial use. When the project has been completed, an inspection of it is made and a license is issued, to the extent of beneficial use, provided the terms and conditions of the permit have been fulfilled.

Once an appropriative water right has been initiated, it must be diligently prosecuted to completion in order to maintain its date of priority. While water may not be appropriated for a distant future use, a reasonable amount of time is allowed to put the full amount of water to use within the original intent of the application to appropriate water.

A right to appropriate water is lost by abandonment or continuous nonuse. In the case of an appropriation initiated prior to 1914, the period of continuous nonuse generally is five year, while in the case of an appropriation initiated under the Water Commission Act or the Water Code, the period of continuous nonuse is generally only three years. Domestic use of water is the highest use and irrigation the next highest use of water as provided in the Water Code.

Applications to appropriate water within the Yuba-Bear Rivers Hydrographic Unit, filed with the State sine 1914 and active on May 29, 1959, are summarized in Table C-1. Those diversions for which an application to appropriate water is filed with the State and which were found in this survey to be of significant size have been assigned diversion numbers which are included in the table. The status of each application as to the granting of a permit or license is also shown in the table.

Ground Water Rights

The permit and license procedure established by the Water Commission Act applies only to streams and other bodies of surface water and to subterranean streams flowing through known and definite channels. Percolating ground water is therefore excluded, and rights to its use are governed by judicial decisions rather than by statute. Ground waters are presumed to be percolating in the absence of evidence to the contrary.

The owner of land overlying a ground water basin or stratum has, like the riparian owner, a paramount right to the reasonable beneficial use of the natural supply upon his overlying land, which right he holds in common with all other landowners similarly situated. Only surplus water in excess of reasonable requirements for beneficial use upon overlying lands is subject to appropriation for beneficial use upon other lands. Prescriptive rights to ground water may be acquired under the same circumstances as prescriptive rights to water of surface streams.

Where ground water and surface water are interconnected, one acting as a tributary to the other, both are treated as part of a common supply, and users of water from either source are entitled to protection from substantial injury as a result of use by othersof water from the other source. Thus, an owner of land riparian to a stream may have his right to the use of water protected against impairment by an appropriator of percolating ground water tributary to the stream and required for the maintenance and support of its flow. Likewise, where water from a stream percolates to a ground water basin or stratum, the owner of land overlying such ground water may be protected from an appropriation of

water of the stream, if such use causes a substantial impairment of the ground water supply. As between riparian use of surface water and overlying use of ground water tributary to the stream, a sharing of the available water supply on the basis of reasonable beneficial use should be made.

State Assistance

Under provisions of the State Water Code, actions involving determinations of rights to the use of water brought in either state or federal courts may, at the court's discretion, be referred to the State Water Rights Board. Under provisions of Water Code Section 2000, the court may appoint the board to referee "any or all issues involved in the suit," or under Section 2001 it may limit the reference to "investigation of and report upon any or all physical facts involved:" This reference procedure may be followed in suits involving either or both surface and ground waters.

A simplified procedure is available for adjudication of rights to the use of water of streams, lakes, and other bodies of water, but the method excludes the determination of rights to take water from an underground supply other than from a subterranean stream flowing through known and definite channels. Water Code Sections 2500 to 2900, inclusive, authorize the initiation of such a proceeding before the board. The board then makes an engineering investigation and report, holds hearings, and prepares an order of determination which is submitted to the court. After hearings, the court makes a final determination of the water rights.

Court actions which involve a determination of all the relative rights to the use of water of an entire stream or stream system and/or ground water basin afford a basis for distribution of water after decree under watermaster service. Water users may secure the services of the Department of Water Resources under Water Code Sections 4000 to 4407, inclusive, in making distribution of the water to them according to their respective rights, as determined by the court.

Litigation Concerning Local Water Rights

Water rights in the Yuba-Bear Rivers Hydrographic
Unit are based primarily upon riparian status and upon appropriation, as further delimited by private agreements, and adjudications. One major suite, Thomas Sleeman v. Nevada

Irrigation District (1932), Nevada County Superior Court
Case No. 5566, recorded in Book 34 of Nevada County Official
Records page 34, has defined the rights of a number of the water users on Wolf Creek. The following is a brief description of the suit and its results.

Sleeman v. Nevada Irrigation District

In this case, Thomas Sleeman, as owner of riparian lands along Wolf Creek south of Grass Valley in Nevada County, sued Nevada Irrigation District to establish the relationship of their respective water rights. Nevada Irrigation District in turn filed a cross-complaint against Sleeman and other users of Wolf Creek waters. The judgment, dated October 8, 1932, establishes the diversion entitlements of the plaintiff and cross-defendants as against the defendant to the natural

runoff of Wolf Creek. Any water that is imported directly to Wolf Creek, or indirectly through the mines upstream, by the defendant is not natural runoff and may not be diverted by the plaintiff or cross-defendants. In addition to this imported water, the defendant may divert as much of the natural runoff of Wolf Creek flowing at the head of the defendant's Tarr Ditch, that is not required to supply the rights of the plaintiffs and cross-defendants.

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with State Woter Rights Board os of May 29, 1959)

•	210108	1	I-368	1-176	I-555	L-385	I-422	1-121	P-2082	P-11,81	P-5801	P-5802	1-264	I-789	I~352	Cert. 8	P-1269	1-510
	esodini	Domestic, fire protection, mining, power, and irrigation, 15 acres	Mining	Irrigation, 65 acres	Power	Irrigation, 4,102,37 acres	Irrigation, 70 acres	Mining	Mining, domestic, and irrigation, 167,789 acres	Irrigation, 167,789 acres	Irrigation, 167,789 acres	Irrigation, 85,000 acres	Irrigation, 35 acres	Irrigation, 13 acres	Irrigation, 10 acres	Irrigation	Irrigation, 31,463 acres	Domestic Irrigation, 10 acree
Pariod	Diversion	Jan 1-Dec 31	Jan 1-Dec 31	Jun 1-Oct 1	Oct 1-Jun 30	May 1-Sept 30	Jul 1-Sept 15	Jan 1-Dac 31	Jan 1-Dec 31 Jan 1-Dec 31 An 15-Sept 30 Apr 15-Sept 30 Apr 15-Sept 30 Apr 15-Sept 30	Jan 1-Dec 31	Apr 1-0ct 1	Apr 1-0ct 31	Apr 1-Nov 1	Apr 1-Sept 30	Jun 1-Sept 30	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31 May 1-Oct 1
	Amount	2.0 cfs	Lo ofe	0.22 efs	0.25 cfs	13.24 cfs	0.87 cfs	0,50 efs	1,060 af 615 af 63,325 af 30 cfs 15 cfs 5.0 efs	60,000 at	100 cfs	125 cfe	0.15 efs	0,037 cfs	0,125 cfs	47.2 cfe	5,000 af	0.12 cfs
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of Poi	Sac.	18	٣	22	28	29	12	75	HHragoo Now	202 118	#32C - 15 #18 8 C	22	27	35	₹	55	25	56
ecetion	4	ME	NW	AS AN	MS.	MM	E E	NS.	PAR SAN AND AND AND AND AND AND AND AND AND A	SES	SE S	3	SE	PS SE	ě	NA	SE	N. S.
	74	eg S	ME	SW	SE	NE	MN	SE	NA SA	SE NW SE SW	SE S	3	SE	MS	AS:	SE	NW	PS Sa
		Scotohnan Creek	Blue Ravine tributary to Kanaka Creek	Secret Ravine Secret Ravine	Springs tributary to North Yuha River	Bear River Bear River	Pass Creek	Buckeye, Nook, and Bull Ravines tributary to Kanaka Creek	Jackson Creek Cauyon Creek Cauyon Creek Facas Creek Tan Tan Tan Bear River at Cambie Daw Rediversion from Bear River at Combie Daw Ilversion from Bear River at Call Hill	Deer Creek Deer Creek Deer Creek Deer Creek Deer Creek Deer Creek	Dear Creek Dear Creek Dear Creek Dear Creek Dear Creek Dear Creek South Pork Dear Creek South Pork Dear Creek	South Yuha River	Antelope Ravine	Tributary to Antelope Creek	Sallors Ravine	North Yuha River	New York Flat tributary to Dry Creek Rediversion from Dry Creek	Cappe Rawine
DWR Diversion	Number	1	18N/10E-3C1 18N/10E-3C2	12N/7E-36ML 12N/7E-36ML	;	1 1	19N/13E-20A1	19N/10E-34NI	198/13E-3171 188/12E-1111 188/12E-1211 188/12E-1211 178/12E-6111 178/12E-6111 178/12E-6111 138/8E-8111	16N/9E-2R1 16N/9E-7H1 16N/3E-12K1 16N/3E-16H1 16N/3E-16H1	1611/7E-20E1 16N/8E-10H1 16N/9E-1H1 16N/9E-1H1 16N/9E-10H1 17N/10E-3ZH1 17N/10E-3ZH1	17N/9E-27HI	1	12N/TE-32NI	13N/7E-3401	1	11	13N/TE- 26NI
Present Dwner		Robert M. Collins	Original 16 to 1 Mine, Inc.	Brian B. and Dwna Mae Hughee	Ernestine Smith	Camp Far West Irrigation District	Jesse Ennor	Original 16 to 1 Mine, Inc.	Newada Irrigation District	Nevada Irrigation District	Newsda irrigation District	Nevada Irritation District	Vermon P. Owens	John H. Carr and Ervan E. Draper	I. R. and Mary Sousa	Browns Valley Irrigation District	Oroville-Wyandotte Irrigation District	Mary O. Ferreira and Leslie L. and Violet Moats
Date	Filed	9/23/16	91/52/6	12/28/16	12/15/11	84/1/4	12/11/18	2/25/19	67175	1/3/20	1/8/20	1/3/20	3/31/20	17.15/20	02/61/1	8/26/20	12/11/20	12/5/21
Application	Number	\$778 	184	51,8	863	656	114,3	1193	1270	1611,	1615	1615	171,5	1778	1923	1986	21/12	2130

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with State Water Rights Board as of May 29, 1959)

Number Place										
2012	7/	-	=	\vdash	_	B. 9 M.	Amount	Diversion Pur	Purpose	Statue
1/85/23 Newrada Irrigation District 194/12-121 Notice the Mineral From Middle Toke Mineral From Mineral										
3/85/21 Nerwid Irrigation Diartic 199/220-1201 Middle Tobs Blow Side of the Tobs Bl	WM		_	181		ē	700 of Jan 5,000 af Jan	Jan 1-Dec 31 Power		L-435
3/5/2	SM	_		198	_	Ð	ofs Jan	1-Dec		P-208lı
3/8/21				18N		99	60,000 af Jan 100 efe Jan 75,000 af Jan	1-Dec 31 1-Dec 31 1-Dec 31		
Marke Instatton Diariet 130/12-101 Condens Creek 150	SW		_	198	_	Ð	ofe May	1-Sept 30 Irrigation, 154,211 acree	1,211 acree	P-2085
Ship				158N		9.9	60,000 at Jan 100 of a Jan 75,000 at Jan	1-Sept 30 1-Dec 31 1-Dec 31	ī	
17/22/21 Toe Verjels Land and Mater Co. 18/4/22-044 Trap Greek	NA SING SING SING SING SING SING SING SING			1188888		999999	1,060 af Dec 615 af Dec 63,325 af Dec 250 efs Jan 30 efs Jan 15 efs Jan	1-711 15 Power 1-721 15 1-731 15 1-750 31 1-750 31 1-750 31		P-2087
19/22/21 Newada Irrination District 2/9/22 Pacific Oas and Electric Co. 18/1/32-30.1 Rediverson from Four River 2/9/22 Pacific Oas and Electric Co. 15/1/32-30.1 Rediverson from Four Forder Crowk 2/9/22 Redific Oas and Electric Co. 15/1/32-221 Baar River - Sequential Co. 2750 10/20/22 Comp Far West Irrination 10/1/32-211 Baar River - Sequential Co. 2750 10/1/32-211 Baar River - Sequential Co. 2750 9/13/22 Comp Far West Irrination 9/13/22 Redific Oas and Electric Co. 18/1/32-2101 North Tulm Street 10/13/23 Pacific Oas and Electric Co. 18/1/32-30.1 North Tulm Street 10/13/23 Pacific Oas and Electric Co. 18/1/32-30.1 Rediversor Red Rediversor Red	A. 15			181		9 9 9	e le	1-Dec		Cert. 14
2/9/22 Pacific Ose and Electric Co. 19/135-30.01 Pacific Creek ST No.			_	TT.		Ð	al a	Nov 30-Jun 1 Irrigation, 107,789 ecres	7,789 ecres	P-11626
2/9/22 Anna E. Flangun 19/9E-2201 Rear Hure - Applieston No. 2790 NG 5750				158		夏夏	26,582 af Nov	Nov 1-Jun 30 Power	Ī	P 986 -1
6/13/22 Camp Ear West Intigation 11M/6E-21L1 Bear Biver Pavine NY SM 21 11M 9/12/22 Orcville-Wandotat Intigation Dry Creek SM 21 11M 9/12/22 Orcville-Wandotat Intigation Dry Creek SM 29 11M 9/12/22 Pacific Oss and Electric Co. 18M/7E-21D1 North Young Alver SM 20 19M 1/13/23 Pacific Oss and Electric Co. 12M/7E-1ML Anhum lawins SM 20 19M 1/13/23 Pacific Oss and Electric Co. 19M/7E-2ML Anhum lawins SM M 20 19M 1/13/24 Pacific Oss and Electric Co. 19M/7E-2ML Periyos Creek M M 20 19M 1/13/24 Pacific Oss and Electric Co. 19M/7E-2ML Periyos Creek M M 21 1M 1/13/24 L. E. Wast and I. C. Louis 11M/7E-2ML Perusylvania Ravine M M M M M M M 5/2				151		ð	100 ofs Jun	Jun 30-Nov 1 Power		L-987
6/13/22 Camp Far West Intigation 11/1/5E-2111 Bear River District NE 58 21 11/1/E 9/12/22 Orcville-Myandotte Intigation — Dry Crock Dry Crock SN SN SS 29 11/1/E 9/12/22 Pacific Oas and Electric Co. 18N/7E-2101 North Valve Siver NN NN<				22N		Ð	11.0 ofs Jan	Jan 1-Dec 31 Mining		F-678
9/12/22 Pacific Ose and Electric Co. 18N/Te-2iD1 North Yuke Siver 170 18N 18 19N 19N 18 19N 18 19N 18 19N 18 18N 18 18N 18	SN S			FFF		999	5,000 af 15ag	Par 1-Jun 1 Irrigetion, 4,102,37 acros		Jr-2766
9/15/22 Ivamin Mishimoto 12M/We-17Kil Anhurn lavine 5/15/22 Ivamin Mishimoto 12M/We-17Kil Anhurn lavine 5/15/23 Pacific Gas and Electric Co. 12M/We-17Kil Anhurn lavine 5/15/23 Pacific Gas and Electric Co. 15/1/23/14 Portyce Greek 1/15/24 1/15/25/14 Pacific Gas and Electric Co. 1/16/25/14 Portyce Greek 1/16/25/14 Portyce Gree	MS	_		19N	_	ē	150 efs Apr	1-3ct 15 Irrivation, 31, 1,3 agres		P-1270
1/13/23 Facilic Gas and Electric Co. 12N/NE-17K1 Avhurn lawine 5% NF 16 12N 1/73/23 Pacific Gas and Electric Co. 19N/NE-17K1 Avhurn lawine 5% NK 5% NK 10 10 1/72b/23 Pacific Gas and Electric Co. 19N/NE-20JI Pennya Creek NK 5% 3% 19N 10 10 1/7/2b L. E. Wystt and Callie J. Robbins 11N/NE-20JI Pennya Lawine NK 9% 3% 19N 10 6/13/2b Edward J., Boy, and K. Brown 11N/NE-20JI Big Obside Creek and Boulder Creek NK NK NK 3% 1M 11/7/2b Nevada Irricetion District 17N/A2E-20JI Peneigra water in South Yous River NK NK NK NK 1M 11/7/2b Nevada Irricetion District 17N/A2E-20JI Peneigra water in South Yous River NK NK NK NK NK NK	ra:			18N		Ð	10,000 af Dec	Dee 1-Jul 15 Pewer		9611-1
1/23/23 Pacific Gas and Electric Co. —— Sandy Flat Ravins 554 NW 24 189 189 17/26/23 Pacific Gas and Electric Co. 184/13F-31J1 Portyce Greek 17/26 L. E. Wyatt and L. C. Lewis 111/72-20J1 Pennsylvania Ravine 77/26 S. H. and Callie J. Robbins 111/72-20J1 Pennsylvania Ravine 78/20/24 Edward J., Boy, and K. Brown 111/72-20J1 Profess and Boulder Creek 189 59/20 JIN 111/72-20J2 School Revada Irrigetion District 177/22-20J2 Profess and Boulder Creek 189 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 Innovited under Applications 2275 and 2372 59/20 JIN 177/22-20J2 59/20 5	**************************************			124		ę.	0.07's a's Apr	Apr 1-Jet 1 Irritation, 6	30.008	264-7
1/20/23 Paditio Gas and Electric Co. 198/139-30.1 Portyge Greek 188 32 34 198 1/7/26 L. E. Wystt and L. C. Levis 111/76-20.1 Pennsylvania Ravine 78 58 20 118 5/20/24 Edward J., Boy, and K. Brown 111/78-3231 Dry Greek 89 78 78 78 118 11/7/24 Edward J., Boy, and K. Brown 111/72-20.1 Brit Chief Creek and Boulder Greek 78 58 77 118 11/7/24 Nevada Irrigetion District 177/122-20.2 Immorbed under Applications 2275 and 2372 58 78 78 18 16/116-1721 18/116-1722 Immorbed under Applications 2275 and 2372 58 78 71 168	THE STATE OF THE S			1,8%	_	Ð	0.0" 6"9 Jan	Jan 1-Dec 31 Demontic		76,1-1
1/7/24 L. E. Wyatt and Lily78-2011 Pennsylvania Ravine 8/20/24 E. W. and Callite J. Robbins 124/78-2011 Dry Grock 9/2/24 Edward J., Boy, and K. Brown 114/79-2701 Bly Chief Creek and Boulder Creek 9/2 SW 27 114 Nevada Irricetion District 174/29-2012 Imported untar in South York River 5/2 SW 18/2 SW 18/2 Library 14/28-2012 Imported untar Kephications 2275 and 2372 SW 18/2 Library 16/21-2012 Imported untar Kephications 2275 and 2372 SW 18/2 Library 16/21-2012 Imported untar Kephications 2275 and 2372 SW 18/2 Library 16/21-21/21 SW 18/2 SW 18/2 Library 16/21-21/21 SW 18/2 SW 18/2 Library 16/21-21/21 SW 18/2 SW 18/2 Library 17/21-21/21 SW 18/2 SW 18/2 SW 18/2 SW 18/2 Library 17/21-21/21 SW 18/21-2012 SW 18/2 SW 18	ZN CAS			골골		อย	26,670 af Nov	Nov 1-Jun 30 Inriguation, 114	llelle seres	P-16%
5/20/24 E. H. and Callte J. Bobbins 11/4/76-3231 Dry Greek 6/13/24 Edward J., Boy, and K. Brown 11/4/72-2721 Big Chief Creek and Boulder Creek 11/7/24 Newada Irrigetion District 17/4/22-2004 Poreign when in South Yobs River 11/7/24 In/A22-2004 Limported Under Applications 2275 and 2372 SW NN 17 15N	\$4.			B	_	ĝ.	0.06 efs Apr	Apr 1-Sent 30 Juni-ation, 25	10 th 3	2-920
6/13/24 Edward J., Boy, and K. Brown 11N/72-2761 Big Chief Creek and Boulder Creek WE SM 27 11N 11N/125-2041 Poreign water in South Yuna River SE NR NN 21 17N 18N 18 18N 18 18N 18 18N 18 18N 18N 18	Mil			Tr'T		£	No af Nov	Nov 1-Nay 1 Inchretion, to	activa	5-1012
11/7/24 Newada Irrigetion District 178/125-204 Incented unter Applications 2275 and 2372 38 NM 21 178 168/112-1721 INCENTED INCENTED INCENTED IN THE STATE OF STATE O				H		ç	0.31 cfs "ey	Levet 31riwitins 34	Election a	L-733
SW 3W 17 16N	and 2372			771		99	135 cfs Jan	Jan 1-Doe 31 Pr 4r		L-15hi
			_	16N		Ð				

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with State Woter Rights Board as of May 29, 1959)

	Stotus	1-1707	1-781	1-948	1-709	1-735	L-898	1-2777	1-796	Pending	1-3008	1-874	1-816	Incomplete	Incomplete	Incomplate	Incomplete	1-815	1-817	1-782	1-1071	1-2172		
	Purpose	Power	Fish culture and recrestion	Irrigation, 48 ecres	Domestic and irrigation, 20 acres	Domestic	Domestic	Power	Irrigation, 10 acres	Irrigation	Domestic and irrigation,	Domestic and irrigation	Domestic and irrigation	Power	Domestic and irrigation	Power	Domestic, flood control, salinity control, navigation, and irrigation, 2,503,000 acres	Mining	Minlng	Fish culture and recreation	Domestic and irrigation, 27 acres	Domestic and irrigation, 77 acres		
Pariod	Diversion	Jan 1-Dec 31	Oct 1-Apr 1	May 15-Oct 15	May 15-Oct 15	Spd Jan 1-Dec 31	Feb 1-Dec 1	Dec 15-Jul 15	May 1-Nov 1	Jan 1-Dec 31	Apr 1-Sept 30	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31 Jan 1-Dec 31	Jan 1-Dec 31 Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31 Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	Apr 1-Oct 1	Apr 1-0ct 15	Apr 15-Oct 15 Apr 15-Oct 15 Apr 15-Oct 15		
	Amount	126 cf9	70.0 af	0.15 cfe	0.075 cfs	2,160 gpd	7,200 gpd	15,000 af	0,12 cfs	Je 000°05	0.19 cfs	0,003 cfs	0,003 cfs	1,800 cfs	1,700 cfs	120 cfs 110,000 af	400 cfs	0.025 cfs	0,025 cfs	2,00 efs	0,11 cf9	1,00 cfs 0,14 cfs 0,26 cfs		
	80 .00 .N.	見見	쥪	Ð	Ð	Ð	욧	99	Ð	夏夏	£	ð	MD	見見	88	ð	99	OM	Ð	ð	ě	999		
Diversion	oż.	12E 12B	88	6 <u>R</u>	72	105	7.8	32	7.5	13E 13E	7.6	833	38	6E 6E	6E 6E	9.6	36	38	80	88	Æ	98 38 38		
	Tp.	17. 17.1	171	12N	NET	N6T	19N	1.8N 1.8N	12N	19N 19N	120	30N	20N	16N 16N	16N 16N	17tN	14N	SON	NOS.	17N	NII	18N 1771 N71		
of Point of	Sac.	ឧส	25	6	82	\$	17	ನ ಬ	12	12	36	82	82	22	32	8	ನ ಜ	87	87	25	٠	23		
Locotion	1/4	NE NA	SE	MS	Œ	NM	MN	NW NW	NE.	SE	MM	NE	E	NW.	SW	M	MM	NE	NE	SE	SE	SE		
_	4/	SE	SW	SE	MIM	MS	SE	NW	Ä	MS MS	萧	SE	SE					MS.	SE	75	SE	SE		
	Source	Foreign water in South Yuba River imparted under Applications 2275 and 2372	Rock Greek	Auburn Ravine	Tributary to Dety Havine	Spring tributary to Coodyear Creek	Costa Creek tributary to Dry Creek	North Yuba River North Yuba River	Dotty's Ravine	Middle Yuba River Middle Yuba River	Suckeys Ravine	West Branch Rich Gulch	East Branch Aich Gulch	Yube River Yuba River	Yube River Yuba River	Sear River	Sear River Sear River	West Dranch Rich Gulch	East Branch Rich Gulch	Rock Greek	Antolope Creek	Roberts Greek Gleenin Ravins Dounts Ravins		
DWR Diversion	Number	17N/12E-20J1 17N/12E-20J2	17N/8E-2501	12N/7E-9P1	13N/7E-29B1	1	191/75-17F1	18N/7E-24D1 18N/7E-25F1	i	f J	12N/75-36E1	1	1	11	11	1	11	1	ı	17 N/8E-35QL	LH2-37/NL1	111		
	THE PARTY OF THE P	Newsda Irrigation District	Fidelity Title Insurance Co.	Mise Ethel Mulligan	Edgar E. and Ina E. Pellett	Ray and Vada Herrera	Marry Malock	Pacific Gas and Electric Co.	Mitsunori and Bill Domen	Nevada Irrigation District	T. M. Nevae	Soper-Wheeler Company	John A. Bean	Department of Water Resources	Department of Water Resources	Department of Water Resources	Department of Mater Messurces	Soper-Wheeler Company	John A. Ssan	Fidelity Title Insurance Co.	George F. and Dixie M. Meridith 11N/75-5H1	Jerome C. Coughlan		
Date	Filad	12/7/24	3/6/25	5/22/5	8/4/25	8/12/25	6/2/5	1730/26	92/1/9	9/8/25	12/11/11	17/1/21	17/721	7/30/27	1/20/1	1/30/21	1/30/21	12/1/6	12/1/6	10/13/27	1/16/28	1/16/28		
Application	Number	4310	7677	1657	4717	1731	7947	200%	1705	5193	et, s	5590	1655	5631	5632	5633	5634	5677	5678	5719	9085	2880	1	

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Water Rights Board oe of May 29, 1959)

Application	Dote		DWR Diversion			Locotion of Point of Diversion	of Pol	of D	ivereion		Pariod		
Number	Filed	Present Owner	Number	Source	74	74	Sec	d H	αċ	.0 K	Amount Diversion	Purpose	Stotue
5970	1/5/28	Pacific Gos and Electric Co.	16N/17E-17E1	Naturel flow and regulated and/or sugmented flow of Bear Alver (Rediversion)	NS NS	SE	17	16N 16N	11E	욧욧	525 cfs Jun 1-Dec 31	Power	F-5725
9609	10/19/28	Soper-Wheeler Company	!	West Branch Rich Gulch	AS.	NA NA	62	20N	88 83	ð	930 gpd Jan 1-Dec 31	Domestic and irrigation	1~1084
1609	10/19/28	Soper-Wheeler Company	1	West Branch Edch Galch	NS.	E)	82	SON	38	Ą	0.025 cfs Jan 1-Dec 31	Operation of a hydraulic ram	1-1085
6609	10/19/28	Soper-Wheeler Company	1	East Brench Alch Gulch	SS.	Si	87	30 N	(a)	Ð	0.025 cfs Jan 1-Dec 31	Operation of a hydraulic ram	1-1080
6120	11/13/28	Ray and Vada Herrera, et al.	1	Tributary to Modysar Greek	33	35	32	NOS	TOE	9	1,500 gpd Jun 1-Dec 31	Domestic	1-1309
6229	3/56/29	Nevada Irrigation District	15N/95-22C1	Bear Mocr	M.S.	80	8	15N	96	Ð	120 cfe Apr 1-Oct 31	Mining, domestic, and irrigation, 167,789 ecres	P~5804
6286	5/13/29	Sterra Ski Club	1	Zero Spring	NA	30 13	zį.	NZ.1	14.15	Q	2,500 gpd Jan 1-Dec 31	Domestic	1-2427
6332	6/16/59	Pacific Gas and Electric Co.	15N/9E-22(1	Augmented flow of Beer River	35	03 m3	27	15N	28	Q _X	120 cfs Jan 1-Dec 31	Power	1-1375
6259	1/9/30	Newads Irrigation District	12N/6E-13A1	Aulum 12.vine	150	30 30 30 30 30 30 30 30 30 30 30 30 30 3	13	NC F	39	ę	8.0 cfe Apr 1-Nov 1	Irrigation, 417 acres	1-4403
6543	1/25/30	J. M. and Walter Sanford	ı	Dry Creek	놠	75	34	1511	39	- P	O.41 cfs Apr 1-Nov 1	Domestic, stockwatering, and irrigation, 32.5 ocres	1-1771
6563	2/13/30	United States Taboe National Forest	1	Spring tributery to North Yuha diver	A.	NE.	H	300	22	£	700 gpd May 1-0ct 31	Domestic	1-4,000
6701	6/16/30	Nevads Irrigetion District	18N/1115-36J1 17N/125-6D1 17N/12E-6D1	Clear Greek Fall Greek Trup Greek	ews.	SS No.	200	12W 17W 17W	135 135 135 135 135 135 135 135 135 135	848	5.0 ofs Jen 1-Dec 31 10.0 ofs Jen 1-Dec 31 5.0 ofs Jen 1-Dec 31	Power	P-5806
6702	6/16/30	Newsde Irrigation District	18N/11E-36J1 17N/12E-6D1 17N/12E-6M1	Cloor Grek Fill Greek Trup Greek	N W W	ES PE	200	18N 177	118 128 128	688	10,0 of apr 15-Sept. 30 I	lrri.ation, 167,789 acres	5-5807
6731	7/15/30	W. C. and A. Cunningham	1	Mosmulto Creek	355	NN	23	181	₩.	0.3	0.15 of Har 15-Dec 1	Domestic and irritation,	1-2230
6834	11/19/30	Langdon Smith	1	Spring tributhry to Spinish Alvine	MS	E.	35	W61	105	2	ond productin 1-Dec 31	Demostic	L-1878
0289	1/14/31	Alpha Stores, Ltd.	11	Stoep Hollow Creek South Fark Greenhorn Creek	S.W.	SF.	38	16K JoN	10E	22	25.0 efs Jan L-Dec 31	bining and donestic	1-2107
7072	9/3/31	Western Gold, Inc.	1111	ikab ikay Crayon Desderan Grayon Bessero Grayon Jorgin Grayon	8588	医毒素	2883	18K 18K 18K	10E 10E 10E	2552	2.0 efs Dec 1-Jul 1 4.0 efs Dec 1-Jul 1 15.0 efs Dec 1-Jul 1 35.0 efs Dec 1-Jul 1	Hinlas;	1-2606
7189	2/18/32	C. L. and H. E. Carroll	Ī	Tributary to North Yuba Hiver	Lot	٠	Đ	19N	101.	£	. 0.15 eft Jun 1-Dec 31	Maning and domestic	1261-1
7216	3/22/32	Oherles J. and Ethel V. Scanlon and Eleine S. Hottorif	11	South Fork Indian Greek North Fork Indian Greek	쉳띥	55.55	8 =	19N 174	2/2	22	2,00 efs Dr. 1-0 r 31 0,035 efs Pn 1-0 c 31	Minin, and dementic	1-1665
7237	3/28/32	Thaddsus C. and G. V. Bhoades	17M/8E-6R1	Tributary to North Yuba Miver	50 50	30	٥	17N	38	9	9.50 of Nov 1-Jun 1	Stockwatering and irrivation, 2 acres	1-2197
7523	3/21/33	Floyd J. and Leta E. Ketcham	1	Griveyard thirtne	호	ঠ	·8	20%	301	g.	16,000 gd Jen 1-Dec 31	Donestic	1-1663
7608	7/5/33	United States Tahos National Forest	1	Spring tributary to Pindle Creek	ភ	<u>88</u>	7	181	88	9	1,600 ged Jun 1-0re 31	Pravotic	L-1863
* P - Indicate	a permit numb	* ? - Indicates parmit rumber of a pulleation approved. L - 1	Indicates license	1 Indicates litemas number of right confirmed. Incomplete - Indicates application not yet complete.	Cates at	plication	on not y	of comp	leta.	Pendins		unlate but not yet approved.	

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with State Water Rights Board os of May 29, 1959)

***************************************		1760	1-2463	P-4230	1-1978	1-1864	1-1732	1-2127	1-2211	1-2212			L-1865	L-2604	1-2249	1-1866	P-5812		P-5813	P-5814	
Q		Domestic and irrigation	Domestic and Irrigation,	Domestic and irrigation, 20 acres	Domestic and irrigation, 2.5 acres	Recreation and domestic	Maning	Mining and domestic	Mining and domestic	Mining and domestic			Recreation	Irrigation, 67 acres	Irrigation, 55 scres	Domestic	Domestic and irrigation, 167,789 acres		Ромет	Ромет	
Period	Divarsion	Jan 1-Dec 31	Apr 1-Oct 1	Jan 1-Dec 31	Apr 15-0sc 15	Jan 1-Dec 31	Jan 1-Dec 31	May 1-Oct 31	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	Mar 1-Nov 1	Feb 1-Dec 1	Jan 1-Dec 31		Jan I-Dec 31	Jan 1-Dec 31 Jan 1-Dec 31 Jan 1-Dec 31 Jan 1-Dec 31 Jen 1-Dec 31	Jan 1-Dec 31 Jan 1-Dec 31	
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5	۲ <u>.</u>	16N	NTT	180	20N	19N	180	20N 20N	16N	16N	16N	16N	19N	11N	TIN	19N	19N	19N 17N 17N	188 188 173 177 168 168 168	19N	18N 15N 17N 17N 15N 16N
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,	4	MN	MS	MS	Ð	SE	SE	SE	NA	M	NE	MN	NE S	NS.	MS	SE	SE	S S S S	NW NW SE SE SE SW SW	SE	SE S
Somoo		Spring tributury to Wolf Creek	Secret Ravine	Spring tributary to Dry Greek	Tributury to North Tuba Hiver	Centle Annie Spring tributary to Numshorn Creek	Glennen Canyon	Nigger Greek Nigger Greek	Derling Canyon tributary to Greenhorn Creek	Hussey Canyon tributary to Little Greenhorn	long Canyon tributary to Little Greenhorn	Darling Canyon tributary to Little Greenhorn Greek	Spring tributary to North Yuba Miver	Antelope Creek	Antelope Greek	Spring tributary to Woodruff Greek	Wilson Creek	Polson Creek Rediversion at Canyon Greek Rediversion at South Yuba River Rediversion at South Yuba River	Teves Creek Clear Creek Fall Creek Ander Creek Ander Creek Ander Creek Ander To Bar fiver Mediversion at Baar fiver Mediversion at Baar fiver Mediversion at Baar fiver	Wilson Greek Polson Greek	Andiversion at Conyon Greek Rediversion at Chan Creek Mediversion at Thep Greek Rediversion at Marker Creek Rediversion at Bauth Niver Rediversion at Baar River Mediversion at Baar River Mediversion at Baar River
DWR Diversion	JEG WINN	1	11N/7E-20G1	1	1	1	1	11	1	ł	1	1	1	11N/7E-17M2	11N/6E-25G1	1	19N/12E-14N1	173/35-2781	16N/12E-19F1 16N/11E-36J1 17N/12E-6J1 17V/12E-6H1 17V/12E-7H1	19N/12E-14N1 19N/12E-14P1	18N/11E-36J1 17N/12E-6H1 17N/12E-7H1
Praeant Owner		A. J. and Florence A. Kelly	Joe Boiss	Ben Rose	Axel and Lucy Nasholm	United States Taboe National Forest	Hermon M. Sterk	Edith N. Waddell	Lee and Nelen Lensford	Lee and Welen Lansford			United States Forest Service Tahoe National Forest	Ralph B. Aitken	George Mavrias	United States Tahoe National Forest	Nevada Irrigation District		Nevado Irrigation District	Nevada Irrigation District	1
Data		7/6/33	8/14/33	8/28/33	66/8/33	9/28/33	10/9/33	10/23/33	11/9/33	11/16/33			11/21/33	1/9/34	7/25/34	10/9/34	17/21/34		11/21/34	17/27/11	0
Application		7611	764,6	7657	7665	7691	7704	77.16	7746	7753			7767	8015	8037	8123	8177		8178	8179	

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Woter Rights Board as of May 29, 1959)

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to 31 Domestic and irrigation, to 31 to 31	٧)	v) v)	REER BEER BEER	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	9	RESERVED RES	REPERTURE THE PROPERTY OF THE	RESER RESERVE E E L A RE
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Rucker Creek Rediversion at South Yube River SE Rediversion at South River SE Field Worker NE Field Worker ST ST River ST	South Yubs River South Yubs siver Bear River a sin called Gremts Ravine Morth Yubs River	South Yube River South Yube River Bear River selon called Grents Ravine North Yube River by to South Yube River by to South Yube River by to North Yube River	uth Yube River ist River ist River Lo called Grents Ravine to South Yube River to South Yube River to North Yube River to North Yube River to Hytton Greek	e	g	South Yube River South Yube River South Yube Hiver Signature Counts Ravine North Yube Hiver North Yube Hiver North Yube River No North Yube River No North Yube River Signature to Oregon Greek Fributary to Oregon Greek Signature Counts Signature Counts Signature Counts Signature Counts Signature Counts Signature Counts Signature Signat	South Yube River South Yube River Rear River South Yubs diver North Yuba River W to South Yuba River W to South Yuba River W to Lytton Greek W to Lytton Greek Sign G	South Yube River South Yube River South Yube Alver South Yube Alver South Yube River No South Yube River No North Yube River No North Yube River No North Yube River South Yube River No North Yube River South Yube River No North Yube River No Nort	South Yube River South Yube River South Yube Atver South Yube Atver South Yube Atver No South Yube River No North Yube River No North Yube River South Yube River South Yube River No North Yube River South Yube River South Yube River No North Yube River South Yu	South Yube River South Yube River South Yube River Side South Yube River Werth Yube River Who Could Yube River Who Lytton Creek Who Creek Son Creek Son Creek Who South Yube River Who Son Creek Who S
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	Arisota Corporation D. N. Hotchkin J. K. and Francee L. Latta	Arjacta Corporation D. N. Hotchkin J. K. and Francse L. Latta Kenneth and Eather Heimback Maurine W. Cook and Theodore W. Chen Himer	Arisota Corporation J. N. Hotchkin J. K. and Frances L. Latta Kenneth and Esther Heimback Maurins W. Gook and Theodore W. Minor Sierra Club, et al. United States Tahoe Nutional	Arisota Corporation D. N. Hotchkin J. K. and Frances L. Latta Kenneth and Eather Heimback Maurine W. Gook and Theodore W. Minor Sterra Club, et al. United States Tahoe National Forest J. C. Coughlan Carl L. Johnson and D. N. Casey	Arisota Corporation D. N. Hotchkin J. K. and Frances L. Latta Kenneth and Eather Meimback Maurine W. Gook and Theodore W. Athmor Sierra Club, et al. United States Tahoe Nutional Forest J. C. Coughlan Carl L. Johnson and D. N. Casey Carl L. Johnson and D. N. Casey	9 9 9 7 Y	A A 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Λ	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ith e e y
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. P. Indicate prent number of application approved. L. Indicates libense number of right confirmed. Incomplete - Indicates application not yet complete. Pending - Indicates application complete

-C-17-

TABLE C-1 (Continued)

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Woter Rights Board as of May 29, 1959)

	Statue		I-2705	L-2777	I3069	1-4921	1-2650	I-4866	P-5671	1~4893	1-393\$	1-3030	P-7332	1-2656	I-2657	L-2658	1-2659	1,-2660	17997	1-4,888	1-2662	1-4175	
	Purpose		Domestic, fire protection, and lrrigation, 1.85 acres	Domestic	Maing	Domestic	Municipal	Mining and fire protection	Irrigation, 90 acree	Domestic	Domestic and stockwatering	Mining	Mining	Stockwatering	Stockwatering and fire protection	Stockwatering, recreation, and fire protection	Stockwatering and fire protection	Stockwatering, recreation, and fire protection	Stockwatering, recreation, and fire protection	Domestic and fire protection	Stockwatering, recreation, and fire protection	Domestic	
Period	Diversion		May 1-Oct 1	Jan 1-Dec 31	Apr 1-Jul 1 Apr 1-Jul 1	May 1-Nov 1	cfs Jen 1-Dec 31	Jan 1-Dec 31	Apr 1-Nov 1 Nov 1-Jun 1	Jan 1-Dec 31	May 1-Oct 31	Jan 1-Jul 15	Jen 1-Dec 31 Jen 1-Dec 31 Jen 1-Dec 31 Jen 1-Dec 31	Apr 1-Dec 1	Apr 1-Dec 1	Apr 1-Dec 1	Apr 1-Dec 1	Apr 1-Dec 1	Apr 1-Dec 1	Hay 1-Nov 30	Apr 1-Dec 1	Apr 1-Dec 31	
	Amenut		0.055 cfe	\$,000 gpd	2.0 cfs	2,700 gpd	1.11 cfs	0,134 cfs	1,2 cfs 72 af	5,000 gpd	170 gpd	12.5 cfs .	16.0 efs 4.0 efs 4.0 efs 6.0 efs	pd2 009	2,130 gpd	715 gpd	1,500 gpd	1,900 rpd	1,300 gpd	14,000 gpd	1,900 Rpd Apr 1-Dec	pds 099	
•	B. B. M.		Ð	Q	99	Q	Ð	모모	9999	Ð	Ð	2	2998 8	Ð	9	QJ/	Ð	ę	ð	ð	ð	Ð	
Location of Point of Diversion	œ		108	88	ILE ILE	105	10E	10E	2333	15E	15E	9E	10E 10E 10E	105	10E	1115	10E	10E	10E	108	105	311	_
int of (F.		19N	1.61	NA.	20N	30N	18N 18N	1288	17N	17N	21N	a sass	16N	18N	1731	18N	18N	1.BN	171	18N	17N	
n of Po	Sec.		<u>m</u>	&	88	%	%	44	สสลล	8	28	13	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	п	19	29	33	8	35	53	33	8	
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	1/4		SE	SE	SR	<u> </u>	NW	NW	NE SE SE	MM	SE	755	SE SW SE	NS.	と	745	SE	SW	MM	35	ě	M	
	Saurce		Woodruff Greek tributary to North Tuba	Moonshine Creek	. Spring tributary to Dapire Creek	Hardy Spring tributery to North Tuba Hiver	. Pauley Creek	Wet Mayine tributury to Kanaka Greek	Badyer Ravine Badyer Ravine Badger Bavine Tributary to Auburn Ravine	Summit Spring No. 1 tributary to South Yubz Hiver	Emigrant Valley Spring	Deacon Long, Ravine	Gedar Grove Ravine tributary to Slate Greek Stahl Ravine tributary to Slate Greek Greenwood Ravine tributary to Slate Greek Tributary to Greenwood Jubyine tributary to Slate Greek Stan Ravine tributary to Slate Greek	King Woolford Spring	dobtins Cabin Spring	dig Tunnel Spring	Logan Spring	Big Lick Springs	Dempecy Springs	White Cloud Springs	Coleman Springs	Skillman Flat Spring	
DWR Diversio	Number		19N/10E-8F1	1	21N/115-18K1 21N/10E-36F1	1	20N/10F-26K1	11	12N/7E-21C1	ı	1	214/91-1331	Z1N/10E-7K1	1	1	1	1	1	1	1	1	1	
Desagn			M. P. Flacher	Zoann Pops Walsey	Mary Ann McAllister and P. W. Elliott and heirs of B. D. Elliott	Al and Bessie Crowder	Downie ville Public Utility District	Dickey Exploration Company	Noy and Lillian LaFaille	United States Tahce National Forest	United States Tahos National Porest	Ploneer Project Partnership	W. H. Pike and Andrew J. Modglin	United States Taboe National Forest	United States Taboe National Forest	United States Taboe National Porest	United States Tahne National Porest	United States Taboe Entional Porest	United States Tance National Porcet	United States Taboe National Porest	United States Taboe National Forest	United States Taboe National Forest	
Date	Filed		6/12/39	6/30/36	10/13/39	11/9/39	2/16/40	07/82/6	01/12/6	10/17/40	10/17/40	1/25/41	1/25/41	3/22/13	3/22/41	3/22/41	3/22/41	3/22/41	3/22/41	3/22/41	3/22/41	3/22/41	
Application	Number		7196	9651	9750	3165	2286	10009	10012	10038	10039	10103	10104	10150	10151	10152	10153	10154	10155	10156	10158	10159	

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with State Water Rights Board as of May 29, 1959)

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Number	Filed		Number	Source	**	4/	Sac.	ig i	œ	Ø 60	Amount	Diversion	Purpose	Status
10160	3/22/43	United States Taboe Mationsi Forest	1	Demory Springs	N.	诱	7	178	201	£	650 gpd A	Apr 1-Dec 1	Stockwatering	1-2663
10161	3/22/41	United States Taboe Nutional	1	Upper Dorbee Springs	AN	SE	53	LRN	108	9	1,800 gpd A	Apr 1-Dec 1	Stockwatering and fire protection	1-2064
10162	3/22/41	United States Tahoe National Forest	1	Snow Tent Spring	MM	NA	8	1.60	त्रट्ट	ę.	13,000 gpd A	Apr 1-Dec 1	Stockwatering, recreation, and fire protection	1-3665
10153	3/22/41	United States Tahoe National Forsat	1	Derbec Springs Creek	NS.	38	53	181	10E	Ð	3,900 gpd A	Apr 1-Dec 1	Stockwatering and fire protection	1-2666
10154	3/22/41	United States Taboe National Forest	1	Willow Springs	NE	SS	R	1.6N	301	9	5,850 gpd A	Apr 1-Dec 1	Stockwatering and fire protection	1-367
10173	3/59/11	Semuel Ballard White, Jr.	1	Sluto Castle Mavine	MN	MS.	36	SON	10E	豆	0.10 cfs A	Apr 1-0ct 1	Irrigation, 3.5 acres	1-4026
18101	17/6/71	James M. Stevens	17N/5E-34K1	Little Ory Greek	NW	SE	×	NZT	N	<u>e</u>	0,25 cfs A	Apr 15-Oct 15	Irrigation, 20 acres	T-2944
10186	4/18/41	Edwin L. and Vera Lurkin	1	Spring tributary to North Tuba River	MS	3E	31	N/S	ali	ð	3,000 gpd Ja	Jan l-Dec 31	Domestic and fire protection	1-2957
10190	4/28/41	Camp Far West Irrivation District	14N/62-2111	Bear River Reliversion from Bear River Retiversion from Bear River	SAS	NE SW	18 %	FEF	99 99 98 98	999	5,000 uf M	May 1-Jun 1	lrrigation, 4,102,37 acres	1-2740
10221	6/13/41	Dapartment of Water Wesources	1	Larr Aver		₩ ₩	ন	14N	39	ð	250 cfs Je	Jan 1-Dec 31 Oct 1-Sept 30	Domestic, flood control, ealinity control, navigation, and irrigation, 2,500,000 seres	Incomplete
10282	4/11/67	Pacific Gas and Electric Co.	18N/7F-240! 18N/7F-25F1 16N/oF-14:31	North Tube River Rediversion from Morth Tube River Rediversion from North Tube River	SE	NA NA	# KA	18N 18N 16N	7E 7E 6E	999	5,335 af 0c	Oct 1-Mar 1	Power	P-8330
10330	11/26/11	United States Tabos National Forest	1	Springs tributary to Oregon Creek	SIE	NE	88	1.6N	38	Q	500 gpd Ja	Jan 1-Dec 31	Recreation	1-2668
10439	5/6/42	United States Taboe National Forest	1	Fowler Spring	NW	MN	20	16N	10E	£	1,300 grd Ma	May 1-Oct 1	Stockwatering and fire protection	1-2888
10440	5/6/42	United States Tahon National	1	Quaker Hill Spring	NA	MS	7	16N	308	£	1,300 gpd Na	May 1-0ct 1	Stockwatering and fire protection	1-2869
10446	5/6/42	United States Taboe National Forest	1	Thimbleberry Greek	NW	SW	~	17N	108	Ð	6,500 gpd Ma	May 15-Oct 15	Stockwatering and fire protection	1-2891
10447	5/6/42	United States Tahon National Forest	1	Junction House Spring	SIM	MS	777	17N	10E	£	7,100 gpd Me	May 1-Oct 15	Stockwatering and fire protection	1-2892
10448	5,6/42	United States Tahoe Metional	1	Grouse Aidge Spring No. 3	MS	E E	9	17N	128	Ð	1,950 gpd Ju	June 1-Nov 30	Domestic, stockwatering, and fire protection	1-4895
10449	5/6/42	United States Tahoe Netformal Forest	1	Magonigal Spring	NA	MN	9	17N	14E	Ð	350 gpd Ju	June 1-Nov 1	Domestic and stockwatering	1-3057
13451	5/6/42	United States Taboa National Forest	1	Bear Trap Creek	MS	MN	25	18N	88	Ð	7,100 gpd Na	May 1-Oct 1	Stockwatering and fire protection	1-2894
104,52	5/6/42	United States Tahoe National Forest	1	Grouse Ridge Spring No. 1	MM	NE	ž	1.6W	12E	g.	350 gpd Ju	Jun 1-Nov 30	Domestic and stockwatering	1-3058
104,53	5/6/42	United States Tahoa National Forest	1	Grouse Ridge Spring No. 2	NW	MS	*	18N	12E	9	1,200 gpd Ju	Jun 1-Nov 1	Domestic, etockwetering, and fire protection	L-3921
10494	7/15/42	United States Tahoe National Forest	1	Dogwood Spring	30	NS.	~	16N	301	g.	1,950 rpd Ju	Jun 1-Dec 1	Stockwatering and fire protection	1-4265
104%	7/15/42	United States Tahoe National Forest	1	Mobley Nomesteed Spring No. 1	NE	NM	8	1.6N	10E	g.	1,950 Kpd Ma	May 1-Oct 1	Stockwatering and fire protection	1-2895

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Water Rights Boord os of May 29, 1959)

	200000	OWR Diversion			Locoti	Location of Point of Diversion	oint of	Diversion	-		Period		
		Number	Source	4/	1/4	Sec.	Ę	œ	B. 8 M.	Amount	Divarsion	Purpose	Status
ore	United States Tahoe National		Holden Spring	MS .	MS I	56	18N	9E	ē	10,000 gpd	May 1-0ct 1	Stockwatering and fire protection	1-2896
or to	United States Tahoe National Forest	ı	Buckeye Spring	SE	AM 3	16	16N	108	Ð	1,950 gpd	May 1-0ct 15	Stockwatering and fire protection	1~2897
2 2	United States Tahoe National	,1	Spring tributary to Bloody Run Creek	85	NE NE	8	18N	10E	ð	2,160 gpd	Apr 1-Dec 31	Stockwatering and fire protection	1-2898
٥ ند	United States Tahoe National Porest	ı	Sardine Springs	SE	MM	8	17N	311	Ð	200 gpd	May 1-Nov 1	Stockwatering and domestic	1-4892
45 0	United States Tahoe National	1	Mobley Homestead Spring No. 2	NE	MN	8	1.8N	10E	g g	6,800 gpd	May 1-0ct 1	Stockwatering and fire protection	1-2899
45 0	United States Tahoe National Forest	1	Indian Spring	Đ	SS	8	17N	108	ð	8,000 gpd	May 1-Oct 15	Domestic and fire protection	1-6100
47.0	United States Tahoe National	1	Mile Springs	MS	SE	. E	16N	10E	B	16,000 gpd	May 1-Nov 30	Stockwatering and fire protection	1-4977
20 0	United States Tahoe National Porest	1	Jackies Orchard Spring	MS .	MS .	27	1.8M	98	Ð	1,950 gpd	May 1-Oct 1	Stockwatering and fire protection	1-2901
	United States Tahoe National	1	Upper Wooleey Spring	MS -	MM	ਹ	1.8M	10E	Ð	1,950 gpd	May 1-Oct 1	Stockwatering and fire protection	1-2902
	Forest Community Club	1	South Pork of Oregon Creek	NE	N.	23	198	10E	ð	30,000 gpd	Jan 1-Dec 31	Mining	1-3064
	C. R. and M. L. Milham	14N/8E-5J2	Wolf Greek	NE NE	SS	~	N ⁷ 72	38	ð	0.50 cfs	May 1-Nov 1	Irrigation, 35 acres	1-3074
-	United States Tahoe Netional	1	Hall's Runch Spring	MS .	- N	4	19%	36	Ð	1,950 gpd	Jan 1-Dec 31	Stockwatering and fire protection	1-2903
	United States Tahoe National Porest	1	Wild Plum Spring	MN	MS I	78	20N	12E	Э	1,950 gpd	Jan 1-Dec 31	Domestic and fire protection	1-2905
	United States Tahoe National Forest	ı	Deadwood Spring	MS	M	ಸ	21N	10E	ð	1,950 gpd	Apr 1-Dec 15	Stockwatering, fire protection, and recreation	1-2907
	United States Tahoe National Porest	1	Gold Lake Spring	ME	M	8	SIN	1.28	ð	1,950 gpd	Jan 1-Dec 31	Domestic and fire protection	1-2908
	United States Tahoe National Forest	1	Saddlebeck Spring	MM	SS	33	ZIN	10E	ð	1,950 gpd	Apr 1-Dec 1	Domestic and fire protection	1-2910
	Cal Ida Lumber Company	19N/9E-6A1 19N/9E-6P1	Cherokse Creek	NE S½ Lot9	oto SW	99	19N 19N	38	99	2,00 efs	Jan 1-Dec 31	Industrial and fire protection	1-3080
	Cal lda Lumber Company	1	Spring tributary to Cherokee Greek	Sg Lot 6	ot 6	7	19N	9.8	ð	7,000 gpd	Jan 1-Dec 31	Domestic	1-3002
	A. T. Merian	1	Spring tributary to Slate Creek	MS	SS .	13	21.8	98	9	77,400 gpd	May 1-0ct 1	Domestic and irrigation,	1-3194
	Martin A. and Cleo B. Maier and 12N/7E-19Al Elmer A. and Mattie Van Dyke	12N/7E-19A1	Tributary to Auburn Ravine	<u> </u>	NE	19	12N	85	ð	0.2 cfs 4.5 af	Apr 1-Nov 1 Apr 1-Nov 1	Stockwatering and irrigation, 17 acres	1~3966
	Tommy Bartsch	18N/8E-20CL	Wagner Greek	SE	3 5	8	1.8N	38	Ð	0°04 cfs	Jul 1-Sept 15	Domestic and irrigation, 3 acres	1-3431
604	F. N. Farnsworth	18N/8E-33M1	Clear Greak	M	*S	33	18N	38	Ð	0.62 cfs	Jan 1-Dec 31	Power, domestic, and irrigation, 10 acres	P-6321
Like .	W. R. Ellsworth	19N/9E-811	Fiddle Creek	SE	**	90	19N	36	ð	3.00 cfs	Nov 1-May 31	Mining, domestic, industrial, and irrigation, 5 acres	1-3299
	Francis J. and Buth Bartsch	18N/8E-2001	Moonshine Greek	SE	MS.	8	18N	8E	ð	0.035 cfs	Apr 1-Dec 1	Irrigation, 5 acres	1-3171

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Woter Rights Boord as of May 29, 1959)

Present		DIVERSION I			100000	100	Location of Point of Diversion	- SION		Period		•
	Owner	Number	Source	74	1/4	Sec.	T.		M. Amount	Diversion	Purpose	Status
William Geerts	erts	1	Tributary to North Tuba Aiver	MS	WW	17	19N	0K 36	7,000 gpd	pd Jan 1-Dec 31	Donestic	1-3087
F. and	C. F. and J. K. Heilman	19N/11E-6F1	Van Joan Creek	Lot 3	NW	9	19N	TIE ND	0.05 efe	fe Hay 1-Nov 15	Domestic and fire protection	1-4849
Albert Anderson	erson	20N/12E-22H1	Spring tributery to North Yuba Alver	MN	NE	23	20N	12E MD	pd 16,000 gpd	pd Apr 1-Dec 1	Domestic, stockwatering, and fire protection	L-3392
. R. and	L. R. and W. Loffmark	1	Spring tributary to Goodyear Greek	SE	SE	32	SON	10E MD	3,800	gpd Jan 1-Dec 31	Domestic	1-3342
Marvey W. Smith	Smith	TH/7E-27/HI	Tributary to Minere Ravine Tributary to Minere Ravine	MN WA	Sw ole div	Z7 Z7	NA NA	Athth B	10	of 1-May 1	Domestic, stockwetering, and irrigation, 60 acres	P-6528
. S. and	W. S. and T. Turner	1	Jim Grow Canyon	MN	NE	9	19N	E M	8	Rpd Jan 1-Dec 31	Domestic	1-3358
nited Sta Forest	United States Tahoe National Forest	1	Red Mountain Spring No. 1	MS	MS	18	17N	13E MD	0.003 cfe	fe Apr 1-Nov 1	Domestic, etockwatering, and fire protection	P-6627
Dallas Poeton	stan	1	Excelsior Ravine	NE	35	7	NOS	10E MD	2.50	ofe Jan 1-Dec 31	Mining	1-3251
Albert Anderson	ierson	20N/12E-22R1	Spring tributary to North Tuba Aiver	MM	NE	23	20N	12E MD	0 0,125 ofe	fe May 1-Oct 1	Irrigation, 30 acree	1-3393
Basil T. Rogere	logere	11N/8E-6H1	Miners Ravine	SE	NE	9	NTT	88 M	0.05	cfs May 1-Oct 15	Stockwatering and irrigation, 4 scree	1-3597
. B. and	A. B. and Derothy M. Heading	1	Springs tributary to Antelope Creek	NE	35	23	12N	37 03	0.05	ofs Jan 1-Dec 31	Domestic and irrigation,	P-6750
Frank Carmichael	nichael	17N/6E-4H1	Dry Creek Dry Creek	SS	E E	13	NZT 17N	9 37 27	16.0	cfe May 1-Dec 1	Irrigation, 1,100 acres	1-4699
Harry P. Mulock	fulock	19N/7E-17F1	Coeta Creek	SE	MN	17	1.9N	7E 30	7,200	gpd Dec 1-Feb 1	Domestic	1-3371
Fred W.	Catherine Sullivan and Fred W. Cook	f	Tributary to North Yuba River	SS	MS	31	21N	13E MD	pdB 000*9	pd Jan 1-Dec 31	Domestic	1-3632
Joseph P. Bachele	Bachele	ZON/10E-32L1	Spring tributary to Goodyear Greek	NM	NS	٧.	19N	10E MD	1,400	gpd Jan l-Dec 31	Domestic	1-3526
Pat Walter Tillie I	Pat Walters and Howard A. and Tillis E. Grebin	12N/7E-20B1	Grapevine Ravine	NN	NE	8	1.2N	7E M	18	af Oct 15-May 15	Stockwatering and irrigation, 12 acres	1-4445
C, and C,	C. and C. T. Moller	1	Bear Creek	SE	SIM	28	19N	IIE MO	1.0 cfe	fe Apr 1-Jul 15	Mining and domestic	1-3979
United St. Forest	United States Tahoe Netional Forest	1	Heskell Creek	SS	NE	33	ZIN	13E ND	0.015	ofe May 1-Oct 15	Domestie	P-7107
United St. Forest	United States Tahos National Forest	1	Glesson Spring	SE	MS	19	19N	10E ND	100	gpd May 15-Nov 1	Domestic, stockwalering, and fire protection	1-4210
United St. Forest	United States Tahoe National Forest	111	Carvin Greek Spring tributary to North Yuba River Carvin Greek	NW NE	SE	277	20N 20N 20N	12E MD 12E MD	5,400 gpd	pd Jan 1~Dec 31	Domestic and fire protection	P-7198
Inited St. Forest	United States Tehoe National Forest	1	Nigger Canyon tributary to North Tuba River	SE	SE	12	19N I	A TIE	9	gpd Jun 15-Nov 15	Domestic	1-3989
James M. Stevens	Stevene	17N/5E-34KL	Little Dry Greek	MM	SE	*	17N	5E 10	15 af	Nov 1-Apr 15	Irrigation, 20 acres	1-3884
District	Donner Summit Public Utility District	11	Spring tributary to Lake Van Norden Spring tributary to Lake Van Norden	NE NE	NE NE	26%	17N 1	9 9 971 371	12,00; gpd 6,000 gpd	od Jan 1-Dec 31 od Jan 1-Dec 31	Domestic and fire protection	1-3821

* P - Indicates permit number of application

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Water Rights Board os of May 29, 1959)

Stotus*		P-7067	1 P-7336	1-3690	1-4848	P-11529	1-5524		P-11530	1-3719	7167-1	Pending		Pending		Pending		1-3806	1-4842	L-4189	I-4454	1-3460	P-7786	P-8649	P-7927
Purposs		Stockwatering and irrigation, 35 acres	Domestic, fire protection, and irrigation	Domestic, stockwatering, and irrigation, 40 acres	. Domestic and stockwatering	Domestic and irrigation, 34,350 scres	Irrigation, 30 acres		Power	Irrigation, 20 acres	Domestic and stockwatering	Domestic, stockwatering, and	irrigation, IL,000 acres	Municipal		Power		Domestic and fire protection	Domestic	Irrigation, 25 acres	Stockwatering	Domestic, stockwatering, and irrigation, 2.5 scres	Stockwatering and irrigation, 80 acres	Domestic and irrigation, 11,000 acres	Domestic and irrigation, 7 scres
Pariod	Divarsion	Apr 1-0ct 31	Mar 1-Dec 1	May 15-Oct 15	Jan 1-Dec 31	Oct 1-Jul 1	Feb 1-May 31		Oct 1-Jul 1	Oct 1-May 1	Jan 1–Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	Jan 1-Dec 31	June 1-Oct 1	May 1-Nov 1	May 1-Nov 1	Jan 1-Dec 31	May 1-Sept 30	Jan 1-Dec 31	Oct 1-May 1	May 1-0ct 1
Amount		0.45 cfs 19.5 af	0,01 cfs	0,31 cfs	1,400 gpd	12,000 af	0.11 cfs		12,000 af	25 af	16,000 gpd	100 cfe	cfs af	100 cfs	a Cita	e Jo	25,000 af	200 gpd	500 gpd	0.25 cfs	pd3 007	0.05 efs	1.0 cfs	20,000 af	0.056 cfs
	B. 9 M.	Ð	Ð	ð	ð	999	Ð	Ð	見日	Ð	999999	ð	Ð	Ð	묫	Ð	Ð	Ð	Ð	Ð	Ð	Đ.	ē	Ð	9
T. I I I I I I I I I I I I I I I I I I I	œ	5E	8	32	9E	6E 6E	betwee	32	6E 6E	7E	138 138	13E	13E	13E	13E	13E	13E	10E	11.6	78	7.E	35	78	299	36
	ď	16N	17N	NTT	NET	19N 19N 18N	point	NTI	19N 19N	16N	*****	NZT	17N	17N	17N	NZT	17N	22N	19N	12K	NTT	MI	TON	NZT.	21N
	Sac.	ot	35	91	90	25.25.25	ersion	S SO	25.25	4	***	8	25	8	25	8	25	8	9	23	%	ล	2	ra ra	19
	74	NB	SE	SE	NE	NW NW SW	le div	SE	NW	MM	22223	MS	NW	SW	MM	Sig	MN	NW	~	M	MN	NS.	2 3	MM	SE
	4/4	NN	288	NE	MN	NW SE NW	Movaid	MN	NW SE	MS	NW NW NW SE SE	NE	NE	NE	E	Æ	SE SE	B	Lot	SE	S	NE NE	L o	MW	MS
Source		Little Dry Creek	Spring tributary to Deer Greek	Secret Ravine	Spring tributary to Clipper Ravine	New York Greek tributary to Dry Greek Rediversion at Dry Greek	Antelope Creek		New York Creek tributary to Ory Creek Rediversion at Dry Greek	Tributary to Yuba River	Spring tributary to South Yubs River	Rattlesnake Creek	South Tuba River	Rattlesnake Creek	South Yuba River	Rattlesnake Creek	South Yuba River	Spring tributary to little Slate Greek	Van Joan Canyon tributary to North Yuba River	Dutch Ravine	Spring tributary to Miners Ravine	Secret Ravine	Miners Ravine	Dry Creek	Spring tributary to Slate Greek
OWR Diversion		16N/5E-10B1	1	11N/7E-16H1	1	111	11N/7E-8G1		11	16N/7E-4E1	111111	ł	:	1	1	1	1	1	1	12N/7E-23F1	:	1	1	1	1
. Present Owner		C. C. French and Sam I. Turnell	C. W. and E. W. Nauman	F. Comrie	Barbara M. and Paul A. Kneebone	County of Yuma and Yuba County Water District	George C. Roeding, Jr.		County of Yuba and Yuba County Water District	N. C. and L. E. Richardson	United States Tahoe National Forest	County of Placer		County of Placer		County of Placer		F. T. and E. T. Clarke	J. S. and R. M. Thomas	Paul and Elizabeth Hipley	Blanche M. Stark	Ervin O. and Polly Pekuri	Carroll A. Leason	Browns Valley Irrigation District	A. T. Merian
Filed		13/14/47	2/10/48	3/37/48	87/82/7	6/3/48	6/11/48		6/29/48	9/12/18	10/7/48	10/13/48		10/13/48		10/13/48		1/12/49	1/24/49	2/27/169	67/62/7	67/9/5	67/6/5	6/2/9	67/6/8
										12700	12734					12748		12898			1,3055			13130	13286

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Woter Rights Board os of May 29, 1959)

antiontion	Dete		THE PROPERTY AND ADDRESS OF THE PARTY AND ADDR					Cocation of roun of Diversion	er Ston				•	
Number	Filed	Present Dwner	Number	Source	1/4	1/4	Sec.	٦ ۾	62 62	. O . K.	Amount	Diversion	Purposs	Status
13297	8/16/49	Frank D. Poggi	1	Tributary to Goodysar Greek	SE	MM	ส	20N 1	10E	Ð	pd9 007	May 1-0ct 31	Domestic and fire protection	L-4043
13325	67/1/6	E. and E. Becky	1	Spring tributary to Brandy Creek	89	MM	*	19N	88	ð	800 gpd Ja	Jan 1-Dec 31	Domestic and fire protection	1-4272
13327	9/2/49	Joseph Hamilton Estats	ı	Spring tributary to Goodysar Greek	NE	NE	87	20N]	108	욧	0,025 efs Ja	Jan 1-Dec 31	Domestic and fire protection	P-8064
13394	10/11/49	Ralph B. Aitken	1	Antelope Creek	MS	MN	R	NII	35	Ð	25 af De	Dec 1-Jul 1	Irrigation, 67 acree	1-4781
13399	10/13/49	Marin Council Boy Scouts of	17N/12E-22@	Chubb Lake tributary to Lake Spaulding	SW	NE	8	17N	12E	Ð	42.5 af Ja	Jan 1-May 15	Recreation	1-37%
13419	10/26/49		11N/7E-35A1	Minsre Ravine	N.	SK SK	35	NTT	E	g	O,3 efs Ap	0,3 cfs Apr 15-Oct 15 56 af	Recreation and irrigetion, 40 acres	1-5430
13542	1/18/50	W. D. and Berthe Byers	12N/6E-12KI	Tributary to Auburn Ravine	MM	83	12	12N	39	g.	0.2 afs Ap	Apr 15-Nov 15	Stockwatering and irrigation, 30 acree	1-4134
13626	3/10/50	United States Tahoe National	ı	Grassy Lake Creek	MS	35	8	ZZN	12E	ð	nf pd8 005,71.	Jun 1-0et 31	Domestic and recreation	P-8115
13627	3/10/50	United States Tabos National Forest	1	Organ Greek	NE	SS	80	20N	138	£	50,000 gpd Jun 15-Aug l	n 15-Aug 1	Recreation, domestic, and firs protection	I-4873
13656	3/28/50	E. S. and C. E. Matthews	1	Tributary to Golden Gate Mavine	MM	SIN	17	19N	87	Q	1,445 gpd Ja	Jan 1-Dec 1	Domestic	1-5234
13689	05/771/79	Mabel Delaney and Frank B. Delaney	8	Tributery to North Tuba River	MS	NE	9	20N	13E	Q	0,145 efe Ma	May 15-Nov 1	Fish culture	1-3836
13718	5/3/50		11N/7E-23J1	Tributary to Minsre Mavine	NA NA	SE	8	NII	El El	ð	10 af Oc	Oct 15-Apr 15	Stockwatering and irrigation, 40 acree	1-4471
13727	5/10/50	Earl J. and Elizabeth Aydelotte	1	Tributary to Searet Mavine	N.	35	8	NTT	12	Ð	9,700 gpd Ja	Jan 1-Dec 3l	Stockwetering and irrigation, 6 acres	1-5498
13740	5/15/50	Walter S. and Annie B. Griffing 12N/6E-12Cl	12N/6E-12C1	Tributery to Markham Ravine	ME	MM	12	12N	99 29	g.	0.075 sfe Ap	Apr 1-0ct 31	Irrigation, 40 acres	1-5312
13839	05/9/2	Marold E. Wontech and Thomas J. Kelly	11N/7E-34H1	Tributary to Minere Ravine	SS	NB.	*	NTT	18	9	38 af No	Nov 1-Apr 30	Recreation and irrigation 70 acros	1-5452
13849	05/27/2		12N/78-19PL	Tributary to Auburn Ravine Tributary to Auburn Ravine	SE	SK	19	12N	22	99	0,2 ofe Apr 1-Oct 1	or 1-0ct 1 or 1-0ct 1	Domestic and irrigation, 15 acree	1-5518
13867	1/26/50	Johnson Ranche County Water District	1	Dry Croek	Diver	1 N	int to	e 100	ated be	MD	25 efs Ju	efs Jun 1-Oct 1	Domestic and irrigation, 12,000 acres	Ponding
			1	Best Blough	NE Davers NW	200	La te b	3N 500 W	4E ated be	MD MD				
			1	Tube River	SES	88	38	15N	27 279	99	35,000 af 0c	Oct 1-Jun 1		
13870	1/21/50	State of California Division of Forestry	1	Spring tributary to Grizzly Greek	35	200	28	1.8N	98	Ð	5,000 gpd Ju	Jun 1-Nov 1	Domestic and fire protection	I_4804
13873	7/31/50	Browns Valley Irrigation District	1	Dry Greek	MM	Z.	rl rl	17N	6E	9	40,000 af Oc	Oct 1-Jun 1	Domestic and irrigation, 9,000 acres	P-9703
13956	05/02/6	Yuba County Water District and Orovilla-Myandotte Irrigetion District	11	Slate Greek Slate Greek	SE	SW	72	20N 20N	88 88	오오	35,000 af Ja 300 cfs Ja	Jan 1-Jul 1 Jan 1-Dec 31	Power and Domestic	P-11515
13957	05/02/6	Yuba County Water District and Oroville-Wyandotte Irrigetion District		Slate Greek Slate Greek	S SS	SW	-10	20N 20N	28 28 38	99	35,000 af Jan 1-Jul 1 300 cfe May 1-Nov 1	an 1-Jul 1 ay 1-Nov 1	Domestic and irrigation, 65,350 acres	P-11516
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APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with State Water Rights Board as of May 29, 1959)

•	Status	I-4904	7/87-1	J-4076	P-8620	1-1648	P-9239	P-9240	P-924.1	P-9159	1-5017	P-8777	1-4,971	1-4943	1-4981	1-5423	1-5229	P-9978	1-5584	L-5114	P-8830	1-5598	I-4857	1~5431
	Purposs	Domestic	Domestic	Stockwatering and irrigation, 9.5 acres	Domestic, recreation, fire protection, and irrigation, 20 acres	Stockwatering and irrigation, 30 acree	Domestic, stockwatering, and irrigation, 5 acres	Domestic, stockwatering, and irrigation, 6 scree	Domestic, stockwatering, and irrigation, 40 acres	Domestic, s tockwatering, fish culture, and irrigation, 80 acres	Irrigation, 9 acres	Mining and domestic	Mining and domestic	Domestic	Domestic	Domestic	Stockwatering and irrigation, 3 acres	Irrigation, 422.4 acres	Stockwatering and irrigation, 15 acres	Domestic	Domestic	Irrigation, 1.5 acres	Fish culture and irrigation, 3 acres	Recreation and irrigation, 90 agres
Pariod	Diversion	Jan 1-Dec 31	Jan 1-Dec 31	Oct 15-Apr 15	Oct 1-Apr 30	Apr 1-Oct 31	Jan 1-Dec 31	Jan 1-Dec 31	May 1-Oct 1	Nov 1-May 31	Mar 15-0ct 1	Jan 1-Dec 31	Jun 1-0ct 1	Apr 1-Nov 30	Jun 1-Nov 1	May 1-Nov 1	Jan 1-Dec 31	Apr 1-Nov 30	Apr 15-Nov 1	Jun 1-Sept 1	Apr 1-Nov 30	May 1-0ct 1	Oct 15-May 15	May 1-Oct 15 Oct 15-May 1
	Amount	200 gpd	750 gpd	21.3 of	100 af	0,38 cfs	0.05 cfs	0.05 cfs	0.375 cfs	0.5 af	0,11 cfs	0,10 cfs	2.5 cfs	25 gpd	300 gpd	2,750 gpd	0.07 cfs	6.0 cfe	0.16 cfs	7,000 gpd	0.01 cfs	0,06 cfs	3 af	0.1 cfs 18 af
	89.09 ⊠	Ð	ð	Ð	ð	99	ð	ð	Ø.	ð	Ð	Ð	Ð	Ð	g	g	Q.	Ð	Ð	ð	Ð	Ø	Q	99
Diversion	œ	15E	7E	98	9.6	35	윉	38	88	98	7.E	9E	105	9E	12E	9E	38	6E	38	13E	12E	7.12	7E	7E 7E
	ig H	17N	19N	158	13N	NII	13N	13N	13N	19N	NTT	18N	18N	17N	NOS	19N	12N	16N	1,3N	17N	181	NTT	12N	NTT NTT
Lecation of Point of	Sec.	17	8	ส	•	12	*	*	75	32	17	*	9	25	R	00	82	7	98	16	~	10	17	33
ocation	1/4	SE	MN	MS.	NE	NW	MM	MN	NE	NE	NW	SW	SW	SE	SE	SW	SS	SW	M	SE	MM	NS	MS.	SS
	4/4	NE	क्र	MS	NA	NE	SE	SE	SE	昱	NE	NE	SW	MS.	NE	SE	妥	NE	SE	SE	SE	SE	ME	SE
ì	Source	Tributery to lake Van Norden watershed	Spring tributary to Ory Greek	Tributary to Bear Edver	Tributary to Glipper Greek	Tributary to Secret Ravine Tributary to Secret Ravine	Rock Greek	Rock Creek	Tributary to Rock Greek	Marion Creek tributary to Gregon Creek	Antelope Creek	Spring tributary to Spring Creek	Cold Springs Creek tributary to Blue Ravine	Lone Grave Spring	Independence Ravine	Piddle Creek	Dirty Face Ravine	French Dry Creek	Tributary to South Fork Dry Greek	Rattlesnake Creek	Jackson Greek	Secret Ravine	Tributary to Grapevine Ravine	Miners Ravine Tributary to Miners Ravine
DWR Diversion	Number	1	1	15N/9E-21M	1	11N/7E-12C1	13N/8E-34F1	1	13N/8E-34H1	1	11N/7E-17C1	1	1	1	ı	1		16N/6E-71.1	13N/8E-26F1	1	1	IN/7E-10P1	12N/7E-17K1	LN/7E-35KL
Present Owner		P. B. and C. Illerich	Clive B. Mubbell	C. J. Rolph, Jr.	California Province of The Society of Jesue	June I. Maxwell, J. and G. Kohlee, and J. S. and B. J. Makimoto	James E. and Elsie W. Webb	Raymond and Stanley Woodward	Alvin W. Museo	E. J. and A. H. Kohler	Antonio and Frances Montero	Loudon B. Mullin	Thomas J. P. Shannon	United States Tahoe National	United States Tahoe National Forest	United States Tahoe National Forest	Lloyd E. and Rae A. Dixon	Sidney V. Smith	Don L. and Lillian D. Castle	United States Tahoe National Forest	United States Tahoe National	R. E. and Ruby Horton	Henry Teichert	J. A. Beek
Dots	Filsd	11/15/50	1/12/51	3/7/51	4/5/51	15/01/71	4/23/51	17/23/21	15/53/51	4/30/51	5/29/51	15/02/9	6/25/51	15/12/9	15/12/9	15/12/9	15/12/9	15/12/9	1/12/51	1/19/21	1/19/51	7/30/51	8/23/51	10/16/51
Application	Number	14057	14125	97.tm	14229	14241	14264	14265	14266	117211	14328	14352	14363	14367	14368	14369	14370	14371	14389	14399	00777	14410	144.39	14,525

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Woter Rights Boord os of May 29, 1959)

	Filad	Tanana Cana	Marin Park										
14545	1		and more	Source	1/4	1/4	Sac.	ĭ, p.	R. B. 8	Amount	Diversion	Purposa	Status
	17/7/11	Elmer A, and Mattle Van Dyke Johnson	1	fributary to Auburn Ravine	MS	W	8	12N	35 B	0.05 cfe	Jun 1-Sept 30 Nov 1-Jun 1	Irrigation, 47 acres	1-5160
	12/2/11	County of Yubs and Yubs County Water District		Canyon Creek Redirention at lost Greek Redirention at Lost Greek Redirention at Lost Greek Redirention at Colien Gate Greek Redirention at Mar fort Greek Redirention at My Greek	NA N	SE SE NM	3,282,2	20N 20N 20N 19N 19N	98 88 88 87 72 72 80 80 80 80 80 80 80 80 80 80 80 80 80	Je 000°07	Oct 1-Jun 30	Domestic and irrigation, 34,350 acres	P-11531
14620 1	1/15/52	Tony Aguilar	1	Tributary to Antelope Greek	SES	NW	¥	12N	7E M	10 af	Oct 1-Jun 1	Irrigation, 78 acres	P-9007
14658	1/29/52	Best Mines, inc.	19N/10E-18J1	Water Box Ravine tributary to Woodruff Greek	SE	Ä	58	19N	108 MD	3,00 efa	Jan 1-Dec 31	Mining, domestic, and fire protection	R-9595
34700	3/6/52	Nevada Irrigation Dietrict	11	Naypress Creek Naypress Creek	MS	NW	75 4	20N 1	13E MD	230 efe	Oct 1-Jul 15	Power	Pending
14701	3/6/52	Nevada Irrigation District	11	Haypress Creek Naypress Creek	MS	NE NE	27.4	20N 1	138 MD 138 MD	230 efe	Apr 15-Jul 15 Oct 1-Jul 15	Irrigation	Pending
34705	3/6/52	Neveds Irrigation District	11	Coon Greek Coon Greek	NE	SE	12	13N 13N	7E MG	20,500 af	Nov 1-Apr 1	Irrigation	Pending
14742	4/7/52	County of Tube and Tube County Water Dietrict	111111	Canyon Creek Rediversion at State Greek Rediversion at Loet Greek Rediversion at Colden Gate Greek Rediversion at Olden Gate Greek Rediversion at Dry York Greek Rediversion at Dry Greek	NA N	NW SEE	34482	20N 20N 20N 19N 19N	58 57 58 58 56 58 58 58 58 58 58 58 58 58 58 58 58 58	Ja 000,00	Oct 1-Jun 30	Ромет	P-11563
11.173 L	4/23/52	V. S. and Edna Jamuith and B. J.Neffey	14N/95-461	Tributary to Campbell Greek Tributary to Campbell Greek Campbell Greek	SW NE	NE NE	4 4 4	14N	9E M 36	0,25 ofs 1,5 eff 0,25 ofs 24 eff 15.0 eff	Mar 1-Nov 1 Nov 1-Mar 1 Mar 1-Nov 1 Nov 1-Mar 1 Nov 1-Mar 1	Stockwatering and irrigation, 81 acres	P-9106
14804	5/12/52	South Sutter Water District	1	Bear River	NE	ऊ	2	N77	Q. 39	360 efe 95,000 af	Jan 1-Dec 31 Oct 1-Jul 1	Domestic and irrigation, 59,000 scree	P-11297
74884	7/1/52	Manuel Arthur Ferry, Jr.	13N/7E-33E1	Tributary to Doty Ravine	SW	M	33	13N	7E MD	12 af	Oct 15-Jun 1	Irrigetion, 16 acres	P-9127
77896	7/8/52	Malcomb R. Hill, M. D.	16N/7E-23N1	Migger Greek	MS	MS	ম	16N	32.	10.0 af	Dec 1-Mar 1	Irrigation, 23 scree	6967-7
14914	1/11/52	A. and B. P. Donald and N. T. end S. W. Nalbrook	1	Migger Greek	NE	SE	75	20N 1	11E NO	1.45 cfs	Apr 1-0ct 1	Mining and domestic	1-5225
14918	1/21/52	Joseph G, and Blanche Brown	19N/9E-21L1 19N/9E-29A1 19N/9E-20N1	East Fork Indian Greek South Fork Indian Greek Grent's Ravine	NE SE SW	SW	288	19N 19N 19N	98 89 98 98 98	3.0 cfe 7.0 cfe 5.0 cfe	Apr 1-Jul 31 Apr 1-Jul 31 Apr 1-Jul 31	Hining	P-9566
14930	7/28/52	United States Tahoe National Porest	1	Lytton Creek	MM	SS	77	17N 1	JAE NO	15,000 gpd	Jan 1-Dec 31	Domestic and fire protection	1-5083
14946	7/31/52	James N. Stevens	17N/5E-34K1	Little Dry Greek	MW	S.	z z	17N	5E M	11.0 af	Sept 1-Apr 15	Stockwatering and irrigetion, 38 acres	1-5084
17671	8/6/52	John W., Loyd, T. M. and Harold J. Sperbeck and Ann Benton	16N/36~7L1	Dry Greek	NE	MS	~	16N	6E MD	0.625 cfe	Apr 1:-Oct 15	Stockwatering and irrigation, 50 scree	P-10084
14,959	8/12/52	A. E. and E. S. Flint	•	Spring tributery to South Tube River	MS	WM	25	17N I	13E M	pd8 059	May 1-Dec 1	Domestic and fire protect on	P-9301
09671	8/12/52	W. C. and M. N. Lowe	1	Spring tributary to South Tuba River	MS	MM	25	17N 1	13E MD	pd2 059	May 1-Dec 1	Domestic and fire protection	P-9302
14961	8/12/52	W. and S. M. Dinsmore	1	Spring tributery to South Yube Alver	MS	NAV	25	17N 1	138 140	650 gpd	May 1-Dec 1	Domestie and fire protection	R-9303

TABLE C-1 (Continued)

APPLICATIONS TO APPROPRIATE WATER IN YUBA - BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Water Rights Board as of May 29, 1959)

•	Status	L-5295	P-11532	I5668	1-5305	P-9567	P-9282	I-5687	P-9828	P-9785	P-9426	1-5218	Pending	Pending	T-4864	1-4714	L-5619	0995-I	P-9557	P-11078	1-5071	1-5185
	Purposs	Domestic and fire protection	Domestic and irrigation, 34,350 scres	Irrigation, 0.5 acre	Domestic, stockwetering, fish culture, and irrigation, 1.5 acres	Domestic, stocknatering, and irrigation, 30 acres	Irrigation, 32 acres	Recreation and irrigation, 70 acres	Donestic	Stockwatering and irrigation, 35 acree	Irrigation, 40 acres	Irrigation, 25 acres	Domestic, flood control, and irrigation, 70,960 scres	Power and flood control	Domestic	Irrigation, 100 acres	Stockwatering and irrigation, 17 acres	Irrigation, 15 acres	Irrigation, 41.6 acres	Mining	Recreation, fish culture, and irrigation, 4 acres	Domestic
Period	Diversion	Jun 15-0ct 1	Oct 1-Jul 1	May 1-0ct 31	Oct 1-May 1	Feb 1-Jun 15	Nov 1-May 30	Nov 1-May 30	Jan 1-Dec 31	Jan 1-Dec 31	Nov 1-Apr 31	Mar 15-Nov 15	Mar 1-Nov 1 Oct 1-Aug 1	Jan 1-Dec 31 Oct 1-Aug 1	Jan 1-Dec 31	Oct 15-Apr 15	May 1-Oct 1	Apr 1-0et 15	Apr 1-Nov 30	Jan l-Dec 31 Jan l-Dec 31	Oct 1-May 1	May 1-Nov 1
	Amount	pd2 059	Je 000°05	4,000 gpd	2,15 af	8.0 af	Je 07	16 af	pd3 009"7	0.44 cfs	180 af	0.25 cfs	700 cfs 246,000 af	800 efe 126,000 af	2,050 gpd	15.0 af	0.07 cfs	0,22 cfs	0.5 efs	20 cfs	30 af	120 gpd
	B. G. M.	Ð	999999	ð	ð	ð	Ð	Ð	g	ğ	Ą	Q	見見	999	g	ě	Ð	g	Ð	999999	ð	g.
Diversion	œ	13E	888888	7.6	35	10E	Æ	733	13E	88	88	35	25 Z	E 23	9E	8E	7.8	88	7.5	108 108 28 28 28	73	13E
ŏ	Ę	17N	20N 20N 20N 19N 19N	NTT	16N	17N	NI	NTT	SON	NTT	13N	1.5N	18N 16N	18N 18N 16N	17N	15N	13N	13N	NTT	1.8N 1.7N 1.7N 1.8N	12N	N.Z.
Location of Point	Sec.	\$2	314425	8	٧.	19	ส	×	4	18	7	25	38	# 12 H	87	7	36	N	8	201022	17	25
ocotion	1/4	NW	85 85 85 85 85 85 85 85 85 85 85 85 85 8	23	NE	SE	NE	Ä	AS.	NM	MM	NE	AN AS	M M	NE	t 2	SE	M	MS	NA NA NA SE	SE	N.
,	1/4	MS.	NA N	SW	NE	NE	NE	S	NE	SIW	NW	SS	MS MS	SW	NE	ы 0	NE	MS	SE	NE SW	NW	*
	Source	Spring tributary to South Yuba River	Canyon Creek Rediversion at State Greek Rediversion at Lost Creek Rediversion at Golden Cate Greek Rediversion at New York Greek Rediversion at Dry Greek	Tributery to Sacret Ravine	Tributery to Tube Alver	Lathrop Ravine	Tributary to Secret Ravine	Tributary to Minere Ravine	Tributary to North Yube Alver	Tributary to Minere Ravine	Borth Fork Dry Creek	Dry Creek	North Tube River Yuba River	North Yubs River Radiversion at North Yubs River Rediversion et Yubs River	Spring tributery to South Yubs River	Indian Ravine	Sailore Ravine	South Pork Dry Creek	Secret Ravine	Humbuy Greek West, Fanach Humbug Greek Walakost Fit Bonnie Gavine Romanon Buyine	Grapevine Ravine	Spring tributary to South Tubs River
DWR Diversion	Number	1	111111	1	16N/7E-5H1	1	1	11N/7E-34H1	1	1	1	15N/7E-25H1	1.1	111	1	1	13N/7E-36J1	13N/86-22E1	11N/7E-20P1		12N/7E-17K1	•
Present Owner		Anns M. Doherty	County of Tube and Tube County Mater District	Val M. and Elaine N. Jecobson	N. C. and L. E. Richardson	D. E. and V. M. Steger	Frank and Marguerite Nute	Harold E. Wentsch and Thomas J. Kelly	N. L. and M. A. White	Clinton R. Lyles, Richard H. Eakins, John A. Lunford and Raleigh L. Howard	Herman H. and Mary E. Gastman	Clarence R. Black	County of Tube	County of Tubs	Armett M. Haberman and Phillie Sine	Oliver P. Stewart	Stanley J. and Betty R. Samson	Halph E. Enzler	Ruben J. Ruhkala	San Juer Gold Company	Henry Teichert	W. W. and T. Freeman
Date	Filsd	8/12/52	8/21/52	8/21/52	8/22/52	8/29/52	10/7/52	11/5/52	12/1/52	12/8/52	2/2/53	2/2/53	2/20/53	2/20/53	3/19/53	1/1/53	4/13/53	4/11/53	1/21/23	4/30/53	5/22/53	5/18/53
Application	Number	14962	14987	14,989	1,991	15002	15043	15077	15100	15107	15182	15184	15204	15205	15246	15282	15290	15298	15318	15324	15338	15345

APPLICATIONS TO APPROPRIATE WATER IN YUBÁ-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Woter Rights Board os of May 29, 1959)

Present Outer Present Outer Number Source Source Number Source Sourc	4	25 S S S S S S S S S S S S S S S S S S S			œ l	220 3340 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Mining Irrigation, 25 scres Domestic Mining and domestic Power Pow	Pey559 Pey559 Pey560 Pey560 Pey561 Pey632 Pending Pending Pending
6/18/53 Union Granite Company						2200 2200 1100 1141 1141 1141 1141 1141		Mining Irrigation, 25 acres Domestic Mining and domestic Power Pleh culture Stockwetering and irrigation, 9 acres Domestic and irrigation, 150,000 acres Domestic, flood control Lrigation, 70,960 acres Irrigation, 70,960 acres	P-9559 P-9560 P-951 P-9632 Pending Pending Pending Pending Pending
6/18/53 Union Cremite Company						300 100 300 117 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Irrigation, 25 scree Domestic Mining and domestic Power Power Plah culture Stockwatering and irrigation, 9 acree Domestic and irrigation, 150,000 acree Fower and flood control Domestic, flood control irrigation, 70,960 ecree	P-9560 P-9591 P-9632 P-9633 Pending L-5376 P-10071 Pending Pending
7/26/53 E. J. and M. M. Dorney						200 200 200 117 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Domestic Mulpig and domestic Domestic Power Power Power Stockwatering and irrigation, 9 acree 150,000 acree Power and flood control Domestic, flood control irrigation, 70,960 acree	P-9532 P-9633
7/2/53 E. j. and M. M. Dorney						100 28 380 11 300 11 11 11 11 11 11 11 11 11 11 11 11 1		Mining and domestic Domestic Power Power Power Stockwatering and irrigation, 9 acree 150,000 acree Fower and flood control Domestic, flood control Irrigation, 70,960 ecree	P-9633 P-9633 P-9633 P-9633 P-10072 Pending Pending
9/3/53 E. J. and M. M. Dornsy — Gold Point Ravine 9/3/53 Newada Irrigation District — South Yuba River 9/3/53 Newada Irrigation District — South Yuba River 9/2/53 Cecil and Soledad K. Black 111/76-1501 Secret Ravine 1D/1/53 Johnson Ramcho County Water — Yuba River 1D/2/53 County of Yuba — North Yuba River 1D/2/53 County of Yuba — Rediveration at North Yuba River 1D/2/53 County of Yuba — Rediveration at North Yuba River 1D/2/53 County of Yuba — Rediveration at North Yuba River 1D/2/53 Johnson Rancho County Water — Yuba River 1D/2/5/53 Johnson Rancho County Water — Yuba River 1D/2/5/5 Johnson Rancho County Water — Niddle Yuba River 1D/2/5/5 Lity of Gress Valley — Niddle Yuba River 1D/2/5/5 Lity of Gress Valley — Niddle Yuba River 12/2/55 Johnson Rancho County Water <				7 7 7		200 20 30 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1		Domestic Power Power Power Stockwatering and irrigation, 9 acree Domestic and irrigation, 150,000 acree Power and flood control Domestic, flood control irrigation, 70,960 ecree	P-9633 Pending Pending Pending Pending Pending
9/3/53 Newada Irrigation District — South Nuba River 9/14/53 Frank B. and Mabel Delaney — Springs tributary to Morth Yuba River 1D/1/53 County of Yuba — Springs tributary to Morth Yuba River 1D/2/53 Johnson Rameho County Water — Yuba River 1D/2/53 County of Yuba — North Yuba River 1D/2/53 County of Yuba — North Yuba River 1D/2/53 County of Yuba — North Yuba River 1D/2/53 County of Yuba — Yuba River 1D/2/53 Johnson Ramcho County Water — Yuba River 1D/2/5/53 Johnson Ramcho County Water — Yuba River 1D/2/5/5 Lity of Grass Valley — Yuba River 1D/2/5/5 Lity of Grass Valley — Middle Yuba River 1D/2/5/5 Lity of Grass Valley — Nuba River 1D/2/5/5 Johnson Ramcho County Water — Nuba River 12/2/5 Johnson Ramcho County Water — Nuba River						100 00 00 00 11 3		Power Power Stockwatering and irrigation, 9 acree 150,000 acree Power and flood control Domestic, flood control Irrigation, 70,960 ecree	Pending Pending Pending Pending Pending
9/3/53 Frank B. and Mabal Delaney 9/23/53 Coult Mabal Delaney 1D/2/53 Johnson Rancho County Water 1D/2/53 County of Yuba Marcho County Water 1D/2/53 County of Yuba Marcho County Water 1D/2/53 County of Yuba Marcho County Water 1D/2/53 Johnson Mancho County Water 1D/2/53 Gity of Grass Walley 12/2/53 Gity of Grass Walley 12/2/53 Johnson Mancho County Water 1D/2/53 Johnson Mancho County Water 1D/2/54 Johnson Mancho County Water 1D/2/54 Johnson Mancho County Wat						300 500 111		Power State culture Stockwatering and irrigation, 9 acree Domestic and irrigation, 150,000 acree Power and flood control Domestic, flood control irrigation, 70,960 ecree	Pending Pending Pending Pending
9/23/53 Frank B. and Mabel Delaney —— Springe tributery to North Yuba River 1D/2/53 Johnson Rancho County Water 1D/2/53 County of Yuba Broke 1D/2/5/53 Johnson Rancho County Water 1D/2/5/53 City of Gress Wallay 1D/2/5/53 Johnson Rancho County Water 1D/2/5/53 City of Gress Wallay 1D/2/5/53 Johnson Rancho County Water 1D/2/5/54 Johnson Rancho County Water						300 300 1114	f May 1-Jun 15 f May 1-Oct 30 f May 1-Oct 30 f Mar 1-Nov 1 f Mar 1-Nov 1 f Mar 1-Nov 1 f Mar 1-Nov 1 f Oct 1-Aug 1 f Oct 1-Aug 1 f Oct 1-Aug 1	Stockwatering and irrigation, 9 acree Domestic and irrigation, 150,000 acree Power and flood control Domestic, flood control, and irrigation, 70,960 acree	P-10071 Pending Pending Pending
10/2/53 Cecil and Soledad K. Black 11M/7E-15D1 Secret Ravine						300 200 111	fie May 1-Oct 30 fie May 1-Oct 30 fie Mar 1-Nov 1 fie Mar 1-Nov 1 fie Mar 1-Nov 1 fie Cot 1-Aug 1 fie Jan 1-Dec 31 fie Oct 1-Aug 1	Stockwatering and irrigation, 9 acree Domestic and irrigation, 150,000 acree Power and flood control Domestic, flood control, and irrigation, 70,960 ecree	P-10071 Pending Pending Pending
10/2/53 Johnson Rancho County Water 10/2/53 County of Tuba County Water						1,500 1,200 346,000 306,000 226,000 100,000 300,000 114,000	Mar 1-Nov Mar 1-Nov Mar 1-Nov Oct 1-Aug Oct 1-Aug	Domestic and irrigation, 150,000 acres Power and flood control Domestic, flood control, and irrigation, 70,960 ecres	Pending Pending
10/2/53 County of Yuba Rediveration at Nutr Anna River 10/9/53 County of Yuba Rediveration at Yuba River 10/9/53 County of Yuba Rediveration at Yuba River 10/28/53 Johnson Rancho County Water Yuba River Yuba River 11/10/53 E. N. and G. J. Robbine 11/10/53 E. N. and G. J. Robbine 11/10/53 County Water 11/10/53 Count						220,000 100,000 300,000 114,000	Jan 1-Dec Oct 1-Aug	Power and flood control Domestic, flood control, and irrigation, 70,960 acree	Pending Pending
10/9/53 County of Yuba North Yuba Hiver (for offstream storage at Waid of beservoir)						300,000		Domestic, flood control, and irrigation, 70,960 ecree	Pending
10/26/53 Johnson Rancho County Water 11/12/53 E. N. and C. J. Robbine 12/17/53 Johnson Rancho County Water 12/17/53 J. W. and Nellie B. District 12/17/53 J. W. and Nellie B. District 12/17/53 J. W. and Nellie B. District		_	_		_	300,000	f Oct 1-Aug 1		-
10/26/53 Johnson Rancho County Water — Middle Tuba River 11/10/53 E. N. and C. J. Robbine Lalf/R-32D Boulder Creek tributary to Bear River 12/17/53 City of Gress Valley — Rock Gress 12/17/53 Johnson Rancho County Water — Yuba River 12/17/53 Johnson Rancho County Water — The Rediversion of tributary to Reade Greek 12/12/53 J. W. and Mellie B. District Lalf-23H1 Dutch Rawine		_	2422 2428		588	300 000	af Oct 1-Aug 1 cfs Mar 1-Nov 1 cfs Mar 1-Nov 1 cfs Mar 1-Nov 1 cfs Mar 1-Nov 1		
12/9/53 E. N. and C. J. Robbine libW/RP-32D1 Boulder Creek tributary to Bear River 12/17/53 City of Gress Valley	SES	SWE	77	18N 8	88 89 89	180,000 af	f Oct 1-Aug 1	Domestic and irrigetion, 400,000 acres	Panding
12/17/53 City of Gress Valley Rock Gresk 12/17/53 Johnson Rancho County Water Toba River Bediversion at tributary to Reade Greek 12/21/53 J. W. and Mellie B. Dieterich 12N/7B-23H1 Dutch Rawine	N.	M.M.	32 1	14N 8	SS MD	0.25	ofs Apr 15-Oct 15 af Nov 1-May 15	Recreation, stockwatering, and irrigation, 108 acres	P-9697
12/21/53 Johnson Rancho County Water Yuba River Bediversion of tributary to Reade Greek 12/21/53 J. W. and Mellie E. Dieterich 128/75-23H Dutch Rawine	NE N	NE	32 1	17N 9	9E MD	D 12,500 af	f Apr 1-Dec 1	Municipal and domestic	P-11459
12/21/53 J. W. and Nellie B. Dieterich 12N/7E-23H1	Lot NW NW	NE NE	8 1	16N 15N	5E 60	200	cfe Mar 1-Nov 1	Domestic and irrigation, 24,000 acree	Pending
	N MS	NE NE	23	12N 7	37.	D 0.18 cfs	fs Nov 1-May 15	Stockwatering and irrigation, 34 acree	P-10347
1/25/54 Johnson Hancho County Water Yubo River Middle Yuba River North Yubo River Middle Yubo River Middle Yubo River Middle Yubo River	SE SE	NA NA NA NA	18324	15N 6 12N 8 19N 8 19N 8	888 888 888 888 888 888 888 888 888 88	MD 800 efs MD 900 efs MD 200,000 af MD 340,000 af	fs Jan 1-Dec 31 fs Jan 1-Dec 31 fr Jan 1-Dec 31 f Oct 1-Aug 1	Power	Pending
15732 2/17/54 Paul N. Anderson South Fork Dry Creek South Park Dry Creek	SE	NE	22	13N 8	88 88	2,58	cfe Jan 1-Dec 31	Domestic and irrigation, 206 acres	P-11497
15822 4/7/54 Cal-Ide Lumber Company Fiddle Greek	SS	MS	1 1	19N 9	9E M	MD 2,300 gpd	pd Jan 1-Dec 31	Domestic and fire protection	1-5280
15843 4/21/54 M. K., C. R., and G. W. Maish 16N/ 75-401 Rapp Greak	NW Si	35	7	7 N91	275 M	MD 0,38 o	ofs Apr 1-Jul 31	Irrigation, 30 acres	Pending

e P - Indicates parmit number of application approved. L - Indicates license number of right confirmed.

TABLE C-1 (Continued)

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Water Rights Board os of May 29, 1959)

•	Statue	Pending	P-10532	P-10112	P-10202	Pending	P-10155	Incomplete	Pending	P-10090	P-9918	P-10060	.P-10194	P.11134	F-10017	P-10082	1-5282	Pending	Pending	P-10249	Pending	Pending	Pending	
	Purpose	Domestic and Arrigation, 150,000 acree	Irrigation, 5 acres	Domestic, stockwatering, and irrigation, 2.68 acres	Irrigation, 42 acres	Power	Mining and domestic	Domestic and irrigation, 212,000 acres	Power	Recreation, stockwetering, and irrigation, 10 acres	Domestic	Domestic, recreation, and irrigation, 3 acres	Mining and domestic	Stockwatering and irrigation, 100 acres	Irrigation, 10 acres	Stockwatering and irrigation, 100 acres	Domestic	Domestic, stockwatering, and irrigation, 5,000 acres	Domestic, stockwatering, and irrigation, 5,000 acres	Domestic, stockwatering, and irrigation, 11 acres	Domestic, stockwatering, and irrigation, 5,000 acres	Domestic, stockwatering, and irrigation, 5,000 acres	Domestic, stockwatering, and irrigation, 5,000 acres	
Pariod	Diversion	Oct 1-Aug 1	Apr 1-0ct 1	gpd Mar 1-Nov 1	May 1-Oct 31	Oct 1-Aug 1	Jan 1-Dec 31	Mar 1-Nov 1 Oct 1-Aug 1 Oct 1-Aug 1 Oct 1-Aug 1	Jan 1-Dec 31 Jan 1-Dec 31 Jan 1-Dec 31 Oct 1-Aug 1	Apr 1-Nov 1 Nov 1-Apr 1	Jan 1-Dec 31	Apr 1-Nov 1	May 1-Dec 1	Oct 31-May 15	Apr 1-0ct 31	Oct 31-Apr 1	Jan 1-Dec 31	Apr 1-Nov 1	Apr 1-Nov 1	Apr 1-Nov 1	Apr 1-Nov 1	Apr 1-Nov 1	Apr 1-Nov 1	
	Amount	282,000 af	0.05 cfs	5,000 gpd	0.5 cfs	440,000 af	2 cfs	200 cfs 50,000 af 60,000 af 158,000 af	2,200 efs 3,400 efs 3,400 efs	0.13 cfs	4,000 gpd	0,04 cfs	0,18 cfs	160 af	0.13 cfs	150 af	1,000 gpd	5 cfs	2,5 cfs	0,14 cfs	5 cfs	2,5 cfs	25 cfs	
	.09 M.	ð	Ð	Ð	Ð	Ø	Ø	9999	998	Ð	ð	Ð	Ð	Ð	g	M	ð	Ð	Ð	Ø	Ð	Ð	Q.	
Diversion	œ	73	38	7.6	778	Ξ9	80 Ed	86 73 77 77	385	98	8 3 3 8	88	IIE	38 88	Æ	80	80	9E	38	7.6	122	11.5	12E	
6	Tp.	18N	174N	N.L.T.N	NII	16N	19N	16N 16N 18N 18N	16N 18N 18N	16N	16N	19N	SON	17N	NII	17N	18N	18N	18N	11N	19N	18N	18N	
of Point	Ssc.	25	17	56	17	77	22	ನನಜ್ಜ	3% S	30	17	%	12	17	34	17	22	32	22	8	30	6	2	
Location	1/4	W	MS:	WN	MS	NS.	AS	SE	NE NE NE	38	NM	Æ	MS	W	MS	NW	MM	WM	SE	₩S	SE	SS	NE	
٦	78	SE	NE	MS	SE	SE	NE NE	NE NE NE	SE	SE	N	SE	MS.	NW	MM	NN .	SE	NE	SW	SE	SE	EN	W	
	92100 0	North Yuba River	Long Hollow tributary to Wolf Greek	French Corral Creek	Tributary to Secret Ravine	North Yuba River	Tributery to Dads Gulch	Deer Greek Deer Greek Middle Yaba River North Yuba River	Yuba River Middle Yuba River North Yuba River	Tributary to Little Greenhorn Greek	Spring tributary to Deer Creek	Springs tributary to Willow Creek	Spring tributery to Mog Canyon Greek	Sweetland Creek	Miners Ravine	Sweetland Creek	Spring tributary to Mosquito Greek	Bloody Wun Creek	Grizzly Creek	Tributary to Secret Ravine	East Fork Middie Yuba River	Poorman Greek	McMurray Lake	
DWR Diversion	Number	1	14N/8E-1711	ſ	11N/7E-17P1	1	1	1111	Para Para Para Para Para Para Para Para	1	1	ı	1	1	1	*	1	ı	1	11N/7E-20P2	1	1	1	
Present Owner		Johnson Rancho County Water District	C. H. and B. G. Robinson	Frank Cardoza	Susie I. and W. F. Ross	Johnson Rancho Gounty Water District	Kenneth C. Nauser	Johnson Rancho County Water District	Johnson Runcho County Water District	John C. and Louise Hines	Lola Eldredge	J. V. Gallndo	Raymond and Arthur K. Morrison	Irene E. Grover	Nellon and Cobolic Development Corp.	Irene E. Grover	J. R. Tavernetti	Cherokee Water Company, Inc.	Cherokee Water Company, Inc.	George L. and Marion E. Robson	Cherokee Water Company, Inc.	Cherokee Water Company, Inc.	Cherokee Water Company, Inc.	
Date	Filed	5/11/54	5/19/54	5/24/54	95/717/9	6/25/54	1/12/54	45/417/2	1/17/29	1/28/24	7/30/54	8/4/54	8/31/54	9/15/54	9/21/54	11/15/54	12/3/54	12/13/54	12/13/54	1/11/55	1/11/55	1/17/55	1/17/55	
Application	Number	15873	15879	15885	15910	15930	15943	15944	15945	15964	15967	15979	16025	16045	16057	16134	16165	16177	16178	16205	16207	16208	16209	

Incomplete - Indicates application not yet complete.

L - Indicates license number of right confirmed.

* P - Indicates permit number of application approved.

-c-28-

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stole Woter Rights Boord os of May 29, 1959)

Number Filed Present Owner, 16210 1/17/55 Cherokee Water Company, 16211 1/17/55 Cherokee Water Company, 16289 3/18/55 Cherokee Water Company, 16395 4/15/55 City of Oroville 16326 4/21/55 City of Oroville 16327 4/21/55 Gity of Conville 16327 5/17/55 State of California 16437 6/23/55 State of California 16437 6/23/55 Ralph B. Altken 16511 8/10/55 Vahan Egholan and	Inc.	Number	Source	74	1/4 Sec.	- T	ać .	. O. M.	Amount Diversion	Purpose	Stotue
1/17/55 3/18/55 4/12/55 6/12/55 6/12/55 6/12/55	b.				-		_				
1/17/55 3/18/55 4/15/55 5/17/55 6/23/55	Inc.		Weaver Lake	WM	SW 3	32 19N	N 12E	g.	50 cfs Apr 1-Nov 1	Domestic, stockwatering, and irrigation, 5,000 scres	Pending
3/18/55 4/15/55 4/21/55 5/17/55 6/23/55 8/10/55	ssley		Middle Yubs River	MS	SE 11	1 19N	N 12E	Ð	50 cfs Apr 1-Nov 1	Domestic, stockwatering, and irrigation, 5,000 acres	Pending
4/22/55 4/22/55 5/22/55 6/23/55	ssley		Spring tributary to Auburn Ravine	NE NE	NW I	17 12N	N SE	Q 2	0.03 cfs Mar 1-Nov 1	Irrigation, 4 scres	1-5507
4/21/55 5/17/55 6/23/55 8/10/55	ssley		Dry Creek		~	36	19N 6E	9	10 cfs Jan 1-Dec 31	Municipal	Incomplete
4,721/55 5,721/55 6,723/55	i,	_	(Additional diversions from Peather Miver and its tributaries under this application)								
4/21/55 5/17/55 6/23/55 8/10/55			Tributary to Secret Ravine	NE	SE 1	01	NII 7E	Ð	0.44 cfs Jan 1-Dec 31	Stockwatering and irrigation, 35 acres	P-114,92
5/11/55 6/23/55 8/10/55		-	Tributary to Secret Ravine	MW	SW	я	11N 7E	9	0,075 cfs Jan 1-Dec 31	Stockwatering and irrigation, 6 acres	P-11493
6/23/55		1	Spring tributary to North Yuba River	M.	SE	π π	20N 11E	Ø.	3,000 gpd Jan 1-Dec 31	Domestic, industrial, and fire protection	F-10367
8/10/55		DALT-37/ALL	Antalope Greek	MS	NW 1	17 11	11N 7E	g g	0.31 cfs Mar 1-Nov 1	Irrigation, 25 acres	1-5511
Margurett	Vahan Eghoian and Margurette M. Eghoian	1	Little Oregon Greek	NW	SE 1	20	18N 7E	Ð	0,50 cfs Jan 1-Dec 1	Domestic and irrigation, 40 acres	P-10917
16532 8/18/55 Deloree Good	Delores Goodridge Carringer	1:	Tributary to Dirtyface Ravine	MS :					0,25 cfs Mar 1-Nov 1	Fish culture and irrivition,	P-10508
		-	Tributary to Dirtyface Ravine	SIM	SE		12N 8K	9	Mar		
16542 8/23/55 Robert J. A. Mildred E.	Robert J. Agere, Jr. and Mildred E. Agers	1	Tributary to Brush Greek	MN	NE	9	16N 9E	Q.	4,400 gpd Jan 1-Dec 31	Domestic	Pending
16558 8/29/55 Laurence R.	Laurence R. and Mary C. Brewer	1	Little Rock Greek	S	35	27 1,	17N 9E	G MO	6 af Feb 1-May 1	Recreational	P-11367
16623 9/26/55 Gridlay Stal	Gridlay Stake, Church of Jesus Christ of Letter Day Saints	1	Spring tributary to Wolf Greek	0	07	2 1	15N 8E	Q.	0,31 cfs Jan 1-Dec 31	Domestic, reerestion, and irrigation, 25 acres	P-10393
16626 9/27/55 Albert J. N	Albert J. Mightingale	16N/7E-26N1	Tributary to Squirrel Greek	MS	SW	26 1	16N 7E	M MD	0.25 cfs Apr 1-Nov 1	Stockwatering and irrigation, &D acres	P-10519
16642 9/30/55 Jemes Ross McFarland	McFarland	1	Carvin Greek	NE	NW	4	20N 12E	ě	2,500 gpd Jan 1-Dec 31	Domestic	P-10775
16650 10/6/55 J. A. Beek		111/76-25N1 11N/76-35A2	Carroll Creek Miners Ravine	SW	SW NW	35 1	11N 7E	96	0.20 cfs Apr 1-0ct 15 47 af Oct 15-Apr 1	Irrigation, 60 acres	P-10445
16659 10/10/55 Walter C. Fisk	Fisk	1	Tributary to Shady Greek	NW	SE	14 17	17N 8E	œ W	0.25 cfs Apr 1-Jul 15 12 af Nov 1-Apr 1	Stockwatering, recreation, and irrigation, 20 acres	P-10458
16725 Alleghany W	Alleghany Water District	19N/10E-34B1	Spring tributary to North Fork Kanaka Greek	MM	NE .	35	19M 10E	Ø.	0.45 cfs Jan 1-Dec 31	Municipal	P-10685
16726 11/8/55 County of Placer	Placer	1	Auburn Revine	MS	SE	1 1	12N 7E	ð	35 cfs Jan 1-Dec 31 25,800 nf Nov 1-May 1	Donestic, stockwatering, and lrrigation, 79,000 acres	Pending,
16727 11/8/55 County of Placer	Placer	1	Pleasant Grove Greek	SE	MS	п	NII 6E	g g	25 cfs Jun 1-Dec 31	Domestic, stockwatering, and irriwation, 79,000 acres	Pending
			Auburn Ravine	SIM	SE	n -1	12N 7E	9	Nov		
16728 11/8/55 County of Placer	Placer	1	Auburn Mavine Doty Ravine	N. M.	SE	12	12N 71	78 MD 7E MD	23,000 af Nov 1-May 1 75 cfe Jan 1-Dec 31 10,800 af Nov 1-May 1	Domestic, stockwatering, and irrigation, 79,000 acres	Pending

rent number of a ppilation approved. L - Indicates licence number of right confirmed. Indocables - Indicates application not yet compare. Fend

TABLE C-I (Continued)

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with State Water Rights Board as of May 29, 1959)

٠	Statue	Incomplete	Pending	1-5508	P-10602	P-10815					Incomplete	P-10823	P-10589	P-10804	P-11321	P-10644	P-11491	P-10850	P-10851	P-10852	P-10833		
	Purpose	Domestic and irrigation, 79,000 acres	Domestic	Stockwatering and regreation	Stockwatering and irrigation, 120 acres	Stockwatering and irrigation, 100 acres					Domestic, etockwatering, and irrigation, 5,000 acres	Irrigation, 50 acres	Domestic, stockwatering, fire protection, and irrigation, 28 acres	Domestic, stockwatering, and irrigation, 50 acree	Irrigation, 4 acres	Stockwatering and irrigation, 35 acree	Stockwatering and irrigation, 28.5 acres	Domestic	Domestic	Domestic	Recreation and irrigation, 16 acree		
Pariod	Diversion	Nov 1-May 1	Jan 1-Dec 31	Nov 1-May 1	Oct 1-Apr 30 Oct 1-Apr 30	oet to oet	Oct 31-Apr 1 Oct 31-Apr 1 Oct 31-Apr 1	Oct 31-Apr 1 Oct 31-Apr 1 Oct 31-Apr 1	Oct Oct	Oct to Cot	Nov 4-Apr 1	Nov 1-Apr 1	Nov 1-May 1	Apr 1-Nov 1 Nov 1-Apr 1	Apr 1-Oct 1	Oct 1-May 1	Apr 1-Nov 1 Nov 1-Mar 1	Jan 1-Dec 31	Jan 1-Dec 31	Apr 1-Sept 15	Dec 1-May 1	1	
į	Amount	35,700 af	2,400 gpd	11 af	14 af 22 af	5.1 af 1.2 af 3.6 af	6.7 af 4.8 af 1,2 af	4.0 af 11.7 af 9.7 af	4.8 af 3.4 af 9.3 af	7.0 af 4.0 af 5.3 af	5,000 af	35 af	70 af	0.6 cfs 21.4 af	0.05 cfs	15 af	0.38 cfs	150 gpd	150 gpd	150 gpd	Je 0.7	1	
	8. 9 M.	g	MD	ē	99	9999	9999	包包包	<u> </u>	999	MD	ð	g	g.	ð	ð	g g	Ð	Ð	Ð	g g		
Location of Point of Diversion	œ	80	9.6	98	38 23 23	2	3 8 8 8	38 38 38	88 88	38 38 38 38 38	125	8E	88	8E	7E	7.E	7.8	128	12E	128	36		
0 10	d d	13W	16N	138	1771 1771	1721 1721 1721	NZI NZI NZI	171 171 171	NZ1 NZ1 NZ1	17N 17N 17N	19N	17N	12N	18N	NTI	TTN	12N	20N	NOS	20N	16N		
10	Sac.	8	9	7	16	11 11 11	12	17	17	17	32	7	22	8	15	%	7	22	27	27	18		
collon	74	MM	NE	SE	N S	NS NS	NS NA	NW NE	NE NE	NE NE	MS.	NS	SW	Se.	MM	M	NS.	NE	NE NE	NE	S 日	-	
1	1/4	MS.	NM	SW	NW NE	NW NE NE	NE SW	SW NIV	SW EN W	SE	M	MS	MM	SS	NE	MS	SE	MM	MN	MM	MS		
-		Bear Myer	Tributary to Sruch Creek	Tributary to Wooley Greek	Tributary to Shady Greek Tributary to Shady Greek	Tributary to Sweetland Greek Tributary to Sweetland Greek Tributary to Sweetland Greek Tributary to Sweetland Greek	to Sweetland to Sweetland to Sweetland	5 9 5	to Sweetland to Sweetland to Sweetland	to Sweetland to Sweetland Greek	Weaver Lake	Tributary to Middle Yuba River	Tributary to Dutch Ravine	Tributary to Clear Greek	Tributary to Secret Ravine	Tributary to Miners Ravine	Tributary to Doty Havine	Spring tributary to North Yuba River	Spring tributary to North Yuba Alver	Spring tributary to North Yuba Elver	Tributary to Hiscox Ravine		
DWR Diversion	Number	I	ı	1	17N/8E-16B1 17N/8E-901	11111	111	111	111	111	ı	17N/8E-4NI	ı	1	1	1	1	20N/12E-22H1	1	1	I	1	
Present Owner		County of Placer	11/10/55 Fred, Sophia, and William Sanchez	Meriin and Velma Lay	Bert L. Burda	Irena E. Grover					Cherokee Water Company, Inc.	Lorin N. Trubschenck	Violet C. Meyer	Ida and Lorin Trubechenck	Noward W. and Mary E. King	Paul J. and Donna Thiringer	Rolland J. Kelly	Albert Anderson	A. C. and M. C. Lear	J. L. and D. K. McGlellan	Oscer and L. P. Sailey		
Date	D	11/8/55	11/10/55	12/5/55	12/12/55	12/15/55		I			1/3/56	1/9/56	1/21/56	1/31/56	2/11/56	3/28/56	95/6/7	95/11/9	6/14/56	6/14/56	95/00/9		
Application	Number	16729	16732	16763	16780	16792			1		16818	16823	16858	16874	16894	16974	16995	17135	17136	17137	17142		

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stole Water Rights Board os of May 29, 1959)

Application	Dota		DWR Diversion			Location of Point of Diversion	of Poin	of Di	ersion	_		Pariod		•
Number	Filad	Present Owner	Number	Source	74	4.	Sec.	ai H	oc.	.00 M.	Amount	Divarsion	Purpose	Stotte
19166	716/56	Decordant 12 Biblice Health	1	Tributary to Slug Canyon	S.	S.S.	7	20N	108	Ð	0,22 cfs	Jan 1-Dec 31	Municipal	P-10893
10111	2000	Olstrict												
17167	95/6/2	Fred C. and Jacqueline Detrom	1	Spring tributary to North Yuba River	MN	NE	27	20N	12E	QV	150 gpd	Jan 1-Dec 31	Dome stic	P-10858
17173	7/12/56	J. W. and Jannie A. Adamson	1	Tributary to Secret Ravine	MM	MS	8	12N	88	ð	0.25 cfs 12 af	Apr 1-Dec 1 Dec 1-May 1	Irrigation, 20 agrea	P-11536
17223	8/9/56	Joseph S. and Mary G. Farreira	13N/7E-35A1	Sallors Ravine	SE	NE	35	13N	78	Ð	0.625 cfa	Apr 1-Nov 1	Irrigation, 50 acree	P-11314
17224	95/6/8	Ralph B. and Julia H. Aitken	11	Secret Havine Secret Ravine	NA	NE SW	22	AA	32.	99	1.77 cfe	Jan 1-Dec 31	Domestic, stockwatering, and irrigation, 140 acres	P-11763
17236	8/13/56	United States Tahoe National Porest	1	Weaver Lake	MN	MS	35	19N	126	ð	0,01 cfs 4,320 ef	May 1-Nov 30 Dec 1-May 1	Domestic and recreation	Pending
17244	8/21/56	Fred C. Havena	1	Tributary to Dry Grack	<u> </u>	MM	-	1811	99 9	9	0.075 cfa	Apr 15-Nov 1	Domestic and irrigation, 5 acres	P-10825
1724.5	8/21/56	Nino DeMartini	1	Spring tributary to Willow Greek	SS	NS.	ก	19N	88	Ð	0,025 cfs	Jan 1-Dec 31	Dom-stic and irrigation,	P-10949
17258	8/21/56	.D. O. and M. W. Newton	14.N/8E-22P1	Ragadale Creek	SS	NS.	8	17tN	20 (E)	ð	20 ef	Oct 15-Apr 15	Stockwatering, recreation, flood control, and irrigation, 60 acrea	P-11462
17285	9/20/26	Vines R. Coulson	ı	Kentucky Ravine	W	SE	Ħ	16N	12	ð	0.25 ofs 37 af	Apr 1-Nov 1 Nov 1-Apr 1	Stockwataring, recreation, and irrigation, 20 acrem	P-11045
17288	9/22/6	D. P. and B. C. Snyder	1	Tributary to borth Yuba River	B	MM	6	20N	132	9	500 gpd	Jan 1-Dec 31	Domestic and fire protection	P-10935
17299	95/88/16	County of Placer	11	Goon Creek Auburn Ravine	NA NA	SW	41	13N 12N	78	모모	6,000 af	Nov 1-flay 1 Nov 1-May 1	Donestic, stockwatering, and irrigation, 79,000 acres	Panding
17300	10/1/56	Cordon I. and Beth L. Gulbranson	11N/7E-20P3	Secret Ravine	S	35	8	NTT	78	ē	0,3 cfa	May 1-Oct 31	Irrigation, 25 aeres	P-10929
17383	12/7/56		1	Miners Ravine	SN	9	র	NII	7E	9	0.44 cfs	May 1-0ct 31	Stockwatering and irrigation, 35 acree	P-11029
17407	12/26/56	Fred W. Masher	1	Arizona Tunnal tributury to Jim Grow Greek	8	SQ.	81	19N	TIE	ð	0,20 efa	May 1-Dec 1	Domestic and mining	P-11040
17474	1/3/57	Alice Dey	11N/8E-7B1	Miners Ravine	MN	NE	7	NTT	20 3	ð	0.25 cfs	Apr 15-Oct 15	Irrigation, 20 acres	Pending
17420	1/17/2	John K. Wilson	1	Tributury to Secret Ravine	NW	SR	%	12N	7.5	9	0,15 cfe 2,5 af	May 1-Oct 31 Nov 1-Apr 30	Irrigation, 28 acree	P-11173
17427	1/21/57	Charles L. and Lila S. Stark	1	Spring tributary to Auburn Ravine	NM	夏	18	12N	88	МО	0.025 cfa	Jan 1-Dec 31	Domestic	P-10694
17430	1/22/21	Murray and Edith E. Young	14N/8E-20R1	Ragedale Creek tributary to Wolf Greek	SE	SS	8	N7T	38	욧	0,3 cfa	Apr 1-0ct 31	Stockwatering and irrigation, 28 acres	P-11047
17437	1/29/57	Paul L. and Mary E. Conley	1	Tributary to Little Greenhorn Greek	Œ	35	*	16N	36	ð	0.18 cfs 5.0 af	Apr 1-Nov 1 Nov 1-Apr 1	Domestic, recreation, and irrigation, 15 acres	P-11015
17495	3/5/57	Edward and Margaret Pilliard	14N/8E-35C1	Tributary to Magnolia Greek	M	NW	35	14N	38	ð	10 af	Nov 1-Apr 1	Stockwatering, regrestion, and irrigation, 20 acres	P-1104,2
17533	3/28/57	United States Tahoe Mational Porest	1	Spring tributary to Salmon Greek	E E	S	7	20N	12E	Ð	6,500 gpd	May 1-Oct 31	Domestic	P-11060
17539	4/3/57		15N/7E-25H1	Tributary to Dry Greak	NE	E.	25	15N	3/2	ð	0.18 cfs 15 af	Apr 1-Nov 1 Nov 1-Apr 1	Stockwatering and irrigation, 15 acres	P-11052
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APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Woter Rights Boord os of May 29, 1959)

Application	Date	0	DWR Divarsion	(Location	of Point	6	Diversion			Period		•
lumber	Filed	- Canada	Number	Source	4/4	7,	Sac.	ď,	eo e	B. 8 M.	Amount	Diversion	Purpose	Stotue
17571	4/25/57	George J. and Anns Legnitto	1	Antelope Greek	Movab	le dive	ersion 8	podnt w	within 7E	ę ę	0.10 cfs M	Mar 1-Sept 30	Fish culture and irrigation, 8 acres	P-11120
17615	5/20/57	C. E. and Mabel Nanson	1	Little Oregon Creek	SE	SE		181	38		0.67 cfs Ag	Apr 1-0ct 31	Irrigation, 53 acres	Pending
17672	25/70/9	Narold Helland	1	Springs tributary to Grizzly Gulch	NS.	SE	77	18N	9E	Ð	200 gpd Jr	Jul 31~Jun 30	Mining and domestic	P-11456
17767	8/12/57	Orin and Nelen Brown	1	Tributary to Little Greenhorn Creek	MS	SE	34	16N	36	Я	8 af N	Nov 1-Apr 1	Stockwatering and irrigation, 20 acres	P-11458
17797	8/22/57	Atchard C. and Dorothea W. Walker	1	Tributary to South Yuba River	SE	SE	8	NZT	15E	M 1,	1,500 gpd Je	Jan 1-Dec 31	Domestic and recreation	P-11267
17798	3/22/57	J. Jerome Hill and Richard C. Walker	1	Tributery to South Yuba River	3.5	S S	8	NZT	15E	M 1,	1,500 gpd Ja	Jan 1-Dec 31	Domestic and recreation	P-11268
17808	8/30/57	G. E., Jr. and J. A. Trimble	11	Spring tributary to South Yuba River Tributary to South Yuba River	SE	SW	17 8	NZ1 NZ1	14E	₽£	100 gpd Ji	Jan 1-Dec 31 Jun 15-Jul 15	Domestic	P-11602
17827	72/61/6	United States Tahoe National Forest	1	Springs tributary to Chapman Greek	NE	MN	N.	20N	13E		O.Ol cfs M	May 1-0ct 31	Domestic	P-11555
17837	10/1/57	Conifer Wood Produsts	ı	Tributury to Rock Creek	NE	SE	*	NET	35	ð	70 af Nc	Nov 1-May 1	Industrial	P-11332
17858	10/23/57	E. J. Lague	1	Springs tributary to Woodpecker Ravine	NE	SE	12	15N	38	9	0,05 cfs Ja	Jan 1-Dec 31	Domestic and fish culture	P-11509
17860	10/24/57	State of Califorda Division of Highwaya	1	Spring tributary to Bear River	NE	NE	10	16N	11E	MD 15,	15,000 gpd	Jan 1-Dec 31	Domestic, industrial, fire protection, and irrigation	P-11350
17863	10/25/57	John and Donna B. Grimes	ı	Tributary to South Fork Wolf Creek	NE	SW	Ħ.	16N	9E	Q.	0.05 cfs Ap	Apr 1-Nov 1 Nov 1-Apr 1	Domestic, stookwatering, and irrigation, 5 acres	P-11331
17867	10/31/57	United States Tahoe National Forest	ı	Spring tributary to Lindsay Greek	NE	SE	200	18N	12E	Ø.	.06 cfs M	May 1-Dec l	Domestic	P-11386
17880	11/12/57	E. W. and J. D. Brodrick	1	Nigger Ravine tributary to East Branch of Slate Creek	ME	MS	27	22N	10E	Q.	11 cfs 34	Jan 1-Dec 31	Mining	P-11600
178871	11/20/57	Robert M. Wheatley	1	Tributery to Dry Creek	SW	NW	23	17N	6E	Ð	30 af Nc	Nov 1-Har 31	Stockwatering and irrigation, 10 acres	P-11400
17912	12/11/57	Robert W. Irvine	ę	Springs tributary to Bear River	SW	MS	\$2	16N	loe	MD 0.	0.025 cfa Ja	Jan 1-Dec 31	Domestic and irrigation, 5 acres	P-11641
17916	12/16/57	Norman E. Quinn	1	Sabie Greek	NW	NW	56	NT.	7E	QV Qv	5 af Ja	Jan l-May l	Irrigation, 30 acres	P-11348
17918	12/17/57	with Schmidt and Catherine W. Carson	1	Wolf Greek	NE	SE	10	14N	38	Ð	1.0 cfs Ap	Apr 1-Nov 10	Irrigation, 70 acres	P-11685
17934	1/6/58	Chester G. Nanson	1	Independence Creek	NE	SE	30	20N	12E	M L,	1,000 gpd M	Mar 1-Dec 15	Domestic and irrigation,	P-11550
17942	1/15/58	Carl C. Wollam	14N/8E-20G1	Long Hollow Ravine	Sie	NE	R	N ⁴ 7I	38	g.	.5 cfs Ap	Apr 15-Nov 1	Domestic, stockwatering, recreation, and irrigation, 20 acres	P-1413
18004	2/18/58	George Cox	1	Tributary to North Ravine	NE	NW	4	12N	38	ē.	0.12 cfs A	Apr 15-Sept 15		P-11546
18010	2/22/58	Bradley-Turner Mines, Inc.	1	Marion Creek	SW	MS	88	19N	36	Q.	3 cfs Ja	Jan 1-Dec 31	Mining	Pending
18011	2/21/58	Bradley-Turner Hines, inc.	1	Marion Greek	MS	NE	32	19N	36 E	Q Q	3 cfs Jr	Jan 1-Dec 31	Mining	Pending
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APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stole Water Rights Board os of May 29, 1959)

Application	Date	Draeent Owner	DWR Diversion	6	٢	cation	of Point	Location of Point of Diversion	sion.		Pariod		•
Number	Filed		Number	#D1000	1/4	47	Sac.	- L	R. B.S.M.	M. Amount	Diversion	Purpose	Stotes
18012	2/21/58	Bradley-Turner Nines, Inc.	1	Waylend Greek	SE	MM	32	19N	36 ND	3 cfa	Jan 1-Dec 31	Mining	Pending
18013	2/21/58	Bradley-Turner Mines, Inc.	1	Wayland Creek	NM	MM	32	19N	9E MD	3 cfe	Jan 1-Dec 31	Mining	Pending
18079	4/2/58	Geraldine Childers, Vernon I., and Juanita Patterson, and Elde Uribe	17N/8E-3A1	Tributary to Clear Greek	NW NW SW	NE NE NE NE NE	wwwww	W. 171	88 88 88 88 88 88 88 88 88 88 88 88 88	200000	Nov 1-Mer 31 Nov 1-Mer 31 Nov 1-Mer 31 Nov 1-Mer 31 Nov 1-Mer 31 Nov 1-Mer 31	Stockwatering and irrigation, 89 acres	P-U547
18089	4/8/58	Harold E. Wentsch and Thomas J. Kelley	11N/76-34H1	Tributary to Miners Ravine	NE	SS SS	34	NTT	7E MD	10 af	Nov 1-Apr 30	Recreetion and irrigation 5D acres	P-11598
18170	6/5/58	T. and E. R. Bartsch	1	Little Willow Greek	MS	NE	27	18N	38 M	.025 cfs	Jan 1-Dec 31	Domestic and irrigation, 5 acres	P-11648
18175	6/10/58	Philip, John, Mario and Laurence Personeni	1	Owl Creek tributary to South Yuba River	Ŋ.	SW	9	16N	SE MD	0.5 afs	May 1-Nov 1	Stockwatering and irrigation,	Pending
18176	6/10/58	Philip, Louis, and John Personeni	11	Shady Creek Shady Creek	SE	NW SW	6 9	16N	SE MD	15 NI	May 1-Nov 1	Stockwatering and irrigation, 80 acres	Pending
18187	6/17/58	A. J. Oyster and Fred Snyder	11	Tributary to Canyon Greek Rock Greek	NE	MW	28	20N 20N	9E MD	1,0 efs 2,0 cfs	Mar 1-Dec 31	Mining	P-11675
18212	7/9/58	August and Verdabelle M. Ebbert	1	Tributery to Salmon Lake	SE	MM	87	ZIN I	12E MD	3.0 cfs 24 uf	Jun 1-Dec 31 Dec 1-Jun 30	Domestic and power	Pending
18214	7/11/58	Harry M. and Buby M. Hill	1	Long Nollow Ravine	NW	NE	8	17th	8E 140	D.2 cfs	Apr 15-Nov 1	Stockwatering, recreation, and irrigation, 11 scree	P-11635
18252	8/6/58	W. S. and Louise 8. McKitrick	ı	Springs tributary to South Tube River	S.	SW	31	17N 8	SE MD	U.125 efs 9 ef	Apr 1-Nov 1 Nov 1-Apr 1	Domestic, stockwatering, recreation, and irrigation	Pending
18279	8/21/58	H. L. Reeves	1	Spring tributary to Yuba Miver	S.	MS	-4	20N 12	13E ND	200 gpd	Jan 1-Dec 31	Domestic	Incomplete
18285	8/39/58	Western States Ventures, Inc.	1	Kanaks Greek	NE	NE	3	18N 1C	10E MD	2,0 efs	Jun 1-Dec 31	Kining and downstic	Incomplete
18286	8/26/58	W. E. Mallis	1	Tributary to North Yubs River	MS.	SE	4	20N 15	13E MD	200 rshd	Jan 1-Dec 31	Domestic	Pending
18294	8/28/58	United States Taboa National Porest	1	Mareh Truct Spring tributary to Rock Creek	MS	38	%	NZ1	36 MD	0.01 efs	Jan 1-Dec 31	Domestic	Pending
18312	9/11/58	Roderic L. Mill	1	Spring tributary to North Yubs River	NW	SW	-4	20N 12	12K ND	pd9 007	Apr 1-Nov 30	Donestic	P-11735
18321	9/16/58	John P. and Helen N. Owens	ı	Long Hollow Greek	NW	NE	R R	17tN	8R MD	D.l ofs	1	Domestic, stockwatering, and irrigution, 5 acres	Pending
18368	10/10/58	George G. Abernathy	1	Golden Gate Ravins tributary to Coste Creek	k NE	MM	17	19N	7E MO	0.25 efa	Jan 1-Dec 31	Domestic and irritition, 20 acres	Pending
18385	10/24/58	W. N. Mayer	1	Spring tributery to North Yube River	SS.	MS	25	20N 11	118 100	100 grd	Jan 1-Dec 31	Domestic	ncomplete
18394	11/5/58	W. K. Buckley	1	Cold Spring tributary to North Yuba River	SS	SE	-4	20N 13	13E MD	300 gpd	May 1-Nov 1	Donestic	ncomplete
18395	11/5/58	G. T. Walker	1	Cold Spring tributary to North Tubs Alver	MS	SE	4	20N 15	13E MD	300 rgpd	May 1-Nov 1	Domistic	ncomplete
18396	11/5/58	L. C. Fuque	1	Cold Spring tributury to North Yuba River	MS	S	-4	20N 15	13E KD	300 gpd	May 1-Hov 1	Domestic	incomplete
18407	11/13/58	R. C. and V. P. Patterson	1	Tributary to Bear River	MS	75	562	Tr'ss	6E 1.D	130 af	Dec 1-Apr 30	Recreation and irrigation, 165 acree	Pending
• P - Indicate	te permit mumb	* P - Indicates permit number of application approved, L ~ I	Indicates licenes	L - Indicates liesnes number of right confirmed. Incomplete - Indicates application not yet complete.	icates appl	lication	not yet	complet	4	nding - Indicat	es application com	Pending - Indicates application complete but not yet approved.	

TABLE C-1 (Continued)

APPLICATIONS TO APPROPRIATE WATER IN YUBA-BEAR RIVERS HYDROGRAPHIC UNIT (Filed with Stote Water Rights Board os of May 29, 1959)

		DWR Diversion			Location	Location of Point of	nt of D	Diversion			Period		,
	Present Dwner	Number	Source	74	74	Sac.	q.	oż.	8. S M.	Amount	of Diversion	Purpose	Stotue
10 EX	Joseph Gabel Brown and Blanche Farmer Brown	19N/9E-2111 19N/9E-29A1	East Fork Indian Greek South Fork Indian Greek	NE SE	SE	ব ৪ :	19N 19N	38 88		3 cfs	Jan 1-Dec 31 Jan 1-Dec 31	Mining	Incomplete
7	100	TAN/AF-ZONT	Grants Mayine	My Par	M 3	8 %	N6T	37	9 9		Jan 1-Dec 31		
E E	Kallard White, Jr.	1	Slate Castle Greek	NW	M.	2	NOR	105	9	pd8 00%	Jan 1-Dec 31	Domestic	Pending
77	First Methodist Church of Loomis	1	Tribitary to Secret Ravine	NE NE	NW	15	NTI	37.	Ð	O.l cfs	Jan 1-Dec 31	Recrestion and irrigation, 8 acres	Incomplete
717 W	Oliver G. and Prances J. Milhous	1	Tributary to Shady Greek	MS	ASS.	ষ	17N	8E	ON ON	% af	Nov 1-May 1	Domestic, stockwatering, recreation, and irrigation, 20 acres	Incomplete
Hob	Nobert and Muth Paine	1	Tributery to North Yuba River	NS.	SE	4	30 N	138	ND ND	200 gpd	Jan 1-Dec 31	Domestic	Incomplete
Uni	United States Tahoe National Forest	1	Jackass Spring tributary to Middle Yuba Hiver	MN	35	8	TBN	IOE	9	2,000 gpd	May 1-Oct 15	Stockwatering and fire protection	Incomplete
Uni	United States Tahoe National Forest	l	Rocky Spring tributary to Middle Yuba River	NE	MN	35	1.8N	88	. WD	1,500 gpd	May 1-Sept 30	Stockwatering	Incomplete
Uni	United States Taboe National Forest	1	McCulloch Spring tributary to Middle Yuba River	SE	NE.	6	1.8N	105	g	720 gpd	May 1-Sept 30	Stockwatering	Incomplete
un F	United States Tahoe National Forest	1	McGinnis Spring tributery to Middle Yuba River	NW	SE	20	1.8N	10E	쥪	500 gpd	May 1-Sept 30	Stockwatering	Incomplete
Dev	Devid M. Takagishi	11N/7E-15B1	Tributar to Secret Ravine	MW	E	15	NII	32/	MD	0.075 cfs	May 1-0ct 31	Irrigation, 6 acres	Incomplete
Wel	Welter E. Mariante	l	Tributery to Antelope Greek	SE	MN	92	12N	7.2	Ð	0,125 cfs 6 af	Apr 15-Oct 15 Nov 1-Mar 1	Irrication, 12 acres	Incomplete
Lew	werence McKeever, Jr. and Margaret McKeever	1	Tributary to Secret Havine	NE	NE	+	NTI	7.2	見	0.025 cfs	Apr 1-Nov 1	Irrigation, 2 acres	Incomplete
					-								
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APPENDIX D

DETAILED DESCRIPTIONS

OF CERTAIN SURFACE WATER DIVERSIONS

DETAILED DESCRIPTIONS OF CERTAIN SURFACE WATER DIVERSIONS

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water is delivered to the Browns Valley Ditch from diversion 17N/6E-4Hl, owned by Frank Carmichael, and is received in exchange for water delivered to him through the Mahle Ditch during the irrigation season.

Nevada Irrigation District

Consideration was first given to the formation of an irrigation system in Nevada County in 1917. At that time landowners in the foothills feared that water supplies originating in the mountainous area to the east would be developed for use in the Sacramento Valley, or that hydroelectric power would be developed in a manner incompatible with full irrigation development in the foothills. In 1918 a local committee formed, and made several water filings to preserve the use of the water for the foothill area.

On March 15, 1921, another local committee presented a petition for the formation of an irrigation district to the Nevada County Supervisors. An election took place on August 4, 1921, which resulted in the formation of Nevada Irrigation District. At that time the district consisted of 202,000 acres in Nevada County.

It was realized at the outset that the development of the irrigation system would require the revenue from hydroelectric power production to finance a major portion of the project. This was accomplished by a contract with Pacific Gas and Electric Company whereby water developed by Nevada Irrigation District in the mountain regions would be transferred

to the company for the development of hydroelectric power.

Basically the contract provided that the water would then be returned to the district in the foothill regions.

The lands within the newly formed district were not entirely without irrigation at the time of its formation. Many ditches that had been constructed to serve mines in Nevada and Placer Counties were serving small scattered parcels of irrigated land.

construction was started in the mountain regions, and existing distribution systems within the district were purchased following approval of the water right applications by the State Division of Water Rights and the Federal Power Commission; approval of the necessary rights-of-way over public land by the Federal Power Commission; and the approval by the Bond Certification Commission for the sale of \$7,500,000 of bonds. Purchase of the distribution systems and the Bowman Lake properties was completed in 1925.

During the time that the district was getting its construction program under way, landowners in Placer-County between Auburn Ravine and Bear River became interested in an additional water supply. On December 10, 1926, approximately 66,500 acres in Placer County were annexed to the district, bringing the total area to about 268,500 acres.

On July 1, 1927, water was first delivered to Pacific Gas and Electric Company at Lake Spaulding. On May 15, 1928, the district voted a second bond issue of \$2,595,000 to take care of the increased cost brought about

by the inclusion of the Placer County unit. This money, along with that remaining from the original bond issue, was to be used for construction of storage on Deer Creek at the Scotts Flat site; general extension of the already purchased distribution system in Nevada County; construction of Van Giesen Dam on the Bear River; purchase from Pacific Gas and Electric Company of its Gold Hill and Ophir irrigation systems in Placer County; and general extension of the distribution system in Placer County. This work was completed in the early 1930's, although some difficulty was encountered because of lack of funds needed to retire outstanding warrants and to complete the distribution system in Placer County.

The district is divided into three divisions for operational purposes. The Mountain Division comprises the mountainous area wherein water is developed and stored for the production of hydroelectric power and later use in the foothill regions. The Nevada and Placer Divisions encompass the foothill lands within the district boundary in Nevada and Placer Counties, respectively.

The location of the diversion facilities operated by the district are shown on sheets 1 through 23 of Plate 2, and sheets 1 and 2 of Plate 4. The following paragraphs outline the functions and principal features of each division.

Mountain Division

The Mountain Division of Nevada Irrigation District consists of the several storage reservoirs on upstream reaches of the Middle and South Yuba Rivers and canals to divert the

which is owned by Pacific Gas and Electric Company. The two principal conduits for transporting this water are Milton-Bowman Tunnel and Bowman-Spaulding Conduit. The water is used for power generation at the powerplant, and is subsequently released to Lake Spaulding. The water is then released from Lake Spaulding for additional power generation by the company, and is returned to the district at six locations for use in the Placer Division, and at the Deer Greek Powerhouse tailrace for use in the Nevada Division. Water rights for all but two of the diversions in this division are based on appropriation applications filed with the State in accordance with the Water Commission Act.

The following is a description of each diversion:

Milton-Bowman Tunnel and Milton Reservoir (Diversion

19N/12E-12N1). Milton Reservoir, with a capacity of 270

acre-feet, was constructed by Nevada Irrigation District in 1928

for purposes of storing runoff to be diverted through the

Milton-Bowman Tunnel to Bowman Reservoir. Additional water

is received into the Milton-Bowman Tunnel from diversions

19N/12E-14F1 and 19N/12E-14H1, approximately 0.5 mile from

Milton Reservoir. These diversions were constructed in 1934.

Upstream Reservoirs Releasing to Bowman Lake. The various reservoirs located upstream from Bowman Lake for the purpose of storing winter runoff for subsequent releases during the summer are: Jackson Lake, French Lake, Island Lake, and Sawmill Lake. The aggregate capacity of these reservoirs

is 17,270 acre-feet, of which 12,500 acre-feet are impounded in Jackson Lake. French Lake and Island Lake are located upstream from Sawmill Lake, thus enabling waters released from them to be regulated at Sawmill Lake.

All of these reservoirs were constructed prior to the formation of Nevada Irrigation District, and were purchased by the district. Island Lake and Sawmill Lake were purchased from North Bloomfield Gravel and Mining Company, November 25, 1925; French Lake from Summit Water and Irrigation Company, January 8, 1926; and Jackson Lake from San Juan Gold Mining Company, June 21, 1938.

Bowman Lake (Diversion 18N/12E-8C1). Bowman Lake was purchased from the Northern Water and Power Company, whose predecessor was the North Bloomfield Gravel and Mining Company, on November 25, 1925. Shortly thereafter construction commenced on new dams at the lake to increase the storage capacity. The original dam was constructed in 1872, and diverted water into the Bloomfield Ditch, which followed the main ridge between the South and Middle Forks of the Yuba River from the lake to the North Bloomfield Mine. At present the principal purpose of Bowman Lake is to store and regulate water released from Milton-Bowman Tunnel, Sawmill Lake, Island Lake, French Lake, and Jackson Lake for rediversion by the Bowman-Spaulding Conduit. This is accomplished by releasing into Canyon Creek for rediversion at the Bowman-Spaulding Conduit.

Bowman-Spaulding Conduit (Diversion 18N/12E-8C2).

Following the purchase of Bowman Lake and other upstream reservoirs, construction commenced on the Bowman-Spaulding Conduit to transmit Bowman Lake water to Pacific Gas and Electric Company's Sapulding Powerhouse No. 3. The conduit diverts from Canyon Creek 0.2 mile below Bowman Lake, and releases water to the powerplant at the head of the penstock.

Diversions Supplementing Bowman-Spaulding Conduit.

During the construction of the Bowman Spaulding Conduit, five additional diversions were constructed on streams between Bowman Lake and Lake Spaulding. These diversions were on Fall Creek (Diversion 17N/12E-6D1), Trap Creek (Diversion 17N/12E-6M1) Rucker Creek (Diversion 17N/12E-7H1), Clear Creek (Diversion 18N/11E-36J1), and Texas Creek (Diversion 18N/12E-19P1).

Lakes owned by Pacific Gas and Electric Company release water through these streams for rediversion into the Bowman-Spaulding Conduit. The Texas Creek, Fall Creek, and Rucker Creek diversions replaced diversions owned by Pacific Gas and Electric Company which diverted to Lake Spaulding through the Texas and Fall Creeks Ditch.

The diversion of Trap Creek, Rucker Creek, and Clear Creek is accomplished by the interception of these creeks by the Bowman-Spaulding Conduit.

Nevada Division

The Nevada Division of Nevada Irrigation District encompasses all district lands in Nevada County. Areas of use within this division receive supply from ditches diverting from

Deer Creek, Wolf Creek, and South Yuba River. Ditches diverting from Deer Creek are supplemented by deliveries from Pacific Gas and Electric Company through its Deer Creek Powerhouse. In addition to this, water is conserved in Scotts Flat Reservoir on Deer Creek. With the exception of Scotts Flat Dam, all the works now in use in the Nevada Division were purchased by the irrigation district at the time of its formation.

All water diverted in the Nevada Division is used within that division, except for releases from D-S and Cascade Canals to Little Greenhorn Creek for rediversion in the Placer Division.

In 1957 the district irrigated approximately 8,940 acres in the division in addition to releasing to natural stream channels for diversion by individually owned diversions. Prior to the formation of the district, approximately 6,600 acres were irrigated in this area by other organizations. Pacific Gas and Electric Company provided service in the vicinity of Nevada City and Grass Valley; the Excelsior Water and Mining Company served lands west of Grass Valley; and the Blue Point Mining Company served an area southwest of Grass Valley. Crops in the district's Nevada Division service area consist primarily of irrigated pasture and deciduous orchard, as they did in 1921. In addition to irrigation, stockwatering, and individual domestic service, water is also supplied to the cities of Grass Valley and Nevada City.

In general, water is taken at diversions in this division under appropriative water rights filed with the State in accordance with the Water Commission Act. The exceptions

are Tarr Ditch, where water is taken under an adjudicated right, and Stone Ditch, where water is taken under an appropriative right established prior to the enactment of the Water Commission Act. All of the diversions from Deer Creek, with the exception of Scotts Flat Dam, divert under water right application No. 1615 which allows an aggregate total of 100 cubic feet per second to be diverted from Deer Creek through eight ditches. Of these eight ditches, seven are now in use and are reported as diversions herein. Following is a short discussion of the diversions within the Nevada Division:

Cascade Canal (Diversion 17N/10E-34E1). Cascade Canal was purchased from Pacific Gas and Electric Company, as successor to the South Yuba Water Company, on November 23, 1926: This ditch diverts from Deer Creek approximately one-fourth mile downstream from the Deer Creek Powerhouse through 58 miles of earth ditch, wood flume, and pipeline. From its diversion point it flows to the Empire Reservoir, located about 3 miles east of Grass Valley, which regulates the flow and releases into the Big Chicago Park Ditch, which divides to form Rattlesnake and Chicago Park Ditchs. Rattlesnake Ditch serves the area between Wolf Creek and South Wolf Creek with its laterals, the Cunningham, Kyler, Union Hill, White, Forest Springs, and Stockton Hill Ditches. Chicago Park Ditch follows the ridge between Wolf Creek and Greenhorn Creek, and terminates near Mt. Olive. These ditches distribute the water in the Greenhorn Creek, Wolf Creek, and Lake Combie Subunits for irrigation, stockwatering, and domestic uses. Water may be released from Banner Reservoir, located on a lateral of the

Cascade Canal, to supplement the D-S Canal. Water may also be released from the Chicago Park Ditch-to Little Greenhorn Creek to supplement the district's diversions from the Bear River in the Placer Division.

China Ditch (Diversion 16N/7E-20E1). China Ditch diverts from Deer Creek through 26 miles of earth ditch and wood flume for irrigation, stockwatering, and domestic uses in the area of Smartville and to the west of Smartville in the Deer Creek, Dry Creek, French Dry Creek, and Camp Beale Subunits. Principal laterals distributing the water in these areas are the Farm and Ousley Ditches. Additional supply for this diversion is received from the South Yuba River by releases from Excelsior Ditch into Deer Creek approximately one-fourth mile upstream from the diversion point of China Ditch.

China Ditch was constructed in 1860 to replace that part of the South Yuba Ditch (now Excelsior Ditch) from Deer Creek to the Smartville area. On September 14, 1925, the Nevada Irrigation District purchased the ditch from the Excelsior Mining and Water Company, successor to Excelsior Mining Company, Excelsior Water Company, and Excelsior Canal Company.

D-S Canal and Deer Creek Reservoir (Diversion 16N/9E-10B1). Deer Creek Reservoir, with a capacity of 1,400 acre-feet, and D-S Canal, which diverts directly from the reservoir, were constructed by Nevada Irrigation District in 1928 to further expand its distribution system in the Nevada Division. The canal, with its various distribution laterals, supplies water for irrigation, domestic, and stockwatering uses in the

Deer Creek and Wolf Creek Subunits, in addition to supplying the City of Grass Valley and a portion of Nevada City. The principal lateral from the D-S Canal is Grass Valley Ditch, which supplies Allison Ranch Ditch and its laterals, Cory, James, and Lafayette Ditches.

Portions of the water diverted through D-S Canal are released for supplemental supply to other Nevada Irrigation District facilities. At the terminus of Grass Valley Ditch, water is released to Rough and Ready Ditch. At the ends of Cory, James, and Allison Ranch Ditches, water is released to French Ravine and Wolf Creek for rediversion by Tarr and French Ravine Ditches. The D-S Canal terminates at and releases excess water into Little Greenhorn Creek, a tributary of Bear River, for use in the Placer Division. This water is normally rediverted from the Bear River through the Bear River Canal for use in Pacific Gas and Electric Company's power system, and returned to Nevada Irrigation District at several locations in the Placer Division.

Excelsior Ditch (Diversion 17N/8E-27H1). Excelsior Ditch diverts from the South Yuba River through approximately 19 miles of earth ditch and wood flume, including its principal extension, Keystone Ditch, for irrigation, stockwatering, and domestic uses in the French Corral, French Dry Creek, and Deer Creek Subunits.

Construction of Excelsior Ditch commenced in 1856, and water was first delivered to the Smartville area in the fall of 1859. At this time the canal was known as the South Yuba Ditch, and the water diverted was used entirely for mining purposes.

Shortly after the ditch was constructed it was decided to abandon that portion of the ditch from its crossing of Deer Creek to its terminus and to carry the water to the mines by a different route. China Ditch was constructed for this purpose in 1860. Excelsior Ditch was constructed by the Excelsior Canal Company, which was succeeded in order by the Excelsior Water Company, the Excelsior Mining Company, and the Excelsior Water and Mining Company. On September 14, 1925, the ditch was purchased by Nevada Irrigation District from the Excelsior Water and Mining Company.

A portion of the amount diverted by Excelsior Ditch is spilled to Deer Creek for rediversion through China Ditch.

Newtown Ditch (Diversion 16N/8E-12K1). Newtown Ditch, with its principal laterals, Pleasant Valley and Williams Ditches, diverts from Deer Creek through 19 miles of earth ditch and wood flume to supply water for irrigation, stockwatering, and domestic uses in the Deer Creek and French Corral Subunits. Excess water in Pleasant Valley Ditch is spilled into the Excelsior Ditch in the vicinity of Pleasant Valley.

Newtown Ditch was constructed in 1881 and purchased by Nevada Irrigation District on September 14, 1925, from the Excelsior Water and Mining Company.

Rough and Ready Ditch (Diversion 16N/9E-7H1). Rough and Ready Ditch diverts water from Deer Creek through approximately 13 miles of earth ditch for irrigation, domestic, and stockwatering uses in the Deer Creek Subunit. This ditch was constructed in 1850 for mining purposes in the area of Rough and Ready, but by the turn of the century all water diverted

was for agricultural use. On September 14, 1924, Nevada

Irrigation District purchased Rough and Ready Ditch from Excelsion

Water and Mining Company.

In addition to water diverted from Deer Creek by this ditch, water is received from D-S Canal through the Grass Valley Ditch. It is also possible for the Rough and Ready Ditch to spill water to supplement the Tunnel Ditch.

Scotts Flat Dam (Diversion 16N/9E-2R1). Scotts Flat Dam and Reservoir, with a capacity of 27,400 acre-feet, was constructed in 1947 by Nevada Irrigation District to store and regulate the flow of Deer Creek, including the discharge from Deer Creek Powerhouse. The water is released downstream for rediversion by the Tunnel, Newtown, China, and Rough and Ready Ditches and the D-S Canal.

Snow Mountain Ditch (Diversions 17N/10E-32M1 and 17N/10E-32E1). Snow Mountain Ditch was purchased from Pacific Gas and Electric Company, whose predecessor was the South Yuba Water Company, on November 23, 1926. The ditch was constructed prior to 1901. The ditch diverts from Deer Creek and receives supplemental supply through diversion 17N/10E-32E1 from the North Fork of Deer Creek at the crossing of the ditch over the creek. From this point the water flows along the north bank of Deer Creek through 15 miles of earth ditch and wood flume to its area of use north and northwest of Nevada City, in the French Corral and Deer Creek Subunits. Principal laterals distributing the water to the areas of use are the Cement Hill and Red Hill Ditches. In addition to irrigation, domestic,

and stockwatering uses, a portion of the Nevada City water supply is provided by the ditch.

Stone Ditch (Diversion 16N/8E-25C1). Stone Ditch diverts from Wolf Creek approximately a mile east of Grass Valley to irrigate a small parcel of land to the north of Wolf Creek and to suprly Pacific Gas and Electric Company's gas plant in Grass Valley. This water is diverted under a 15-miner's inch appropriative water right established prior to 1914 and claimed by Pacific Gas and Electric Company. Since very little water flows this high on Wolf Creek during the irrigation season, water is released from the D-S Canal to augment the flow of Wolf Creek.

Tarr and French Ravine Ditches (Diversions 15N/8E-10R1) and 15N/8E-9K1). Tarr Ditch (Diversion 15N/8E-10R1) diverts from Wolf Creek through 35 miles of pipe, flume, and earth ditch. A large portion of this mileage is that of B Canal, a lateral the branches of which are Cole, Redinger, Viet Cameron, Wolf, Spoor, and Smith-Gordon Ditches and Clear Creek Lateral. The Smith-Gordon Ditch inturn has Bald Hill and Pet Hill Ditches as branches. French Ravine Ditch (Diversion 15N/8E-9K1) diverts from French Ravine into the Tarr Ditch approximately one and one-half miles from the diversion point of Tarr Ditch. Supplemental water for these diversions is provided by spills from the D-S Canal into French Ravine and Volf Creek upstream from the diversion points.

Tarr Ditch diverts for irrigation, domestic, and stockwatering uses in the Wolf Creek, Dry Creek, Camp Far West, and Deer Creek Subunits. The ditch was constructed in 1858 by the Nevada Reservoir Ditch Company to divert water from Wolf Creek to the mines near Smartville. At a later date the ownership was changed to New Blue Point Mining Company, which sold the ditch to Nevada Irrigation District on June 12, 1926. At the time of the purchase of this ditch, it was the principal irrigation source for the area southwest of Grass Valley.

Water right litigation concerning this ditch and other diversions from Wolf Creek took place in 1932, and the judgment established that only imported water and that natural runoff above the amounts to which certain downstream users are entitled could be diverted by Nevada Irrigation District. A further explanation of the proceeding is provided in Appendix C.

Tunnel Ditch (Diversion 16N/8E-18M1). Tunnel Ditch diverts from Deer Creek approximately one mile northeast of the community of Rough and Ready. The length of the ditch is 12 miles, which includes its two main laterals, Riffle Box and Rex Ditches. These ditches distribute water in the area West and southeast of Rough and Ready for irrigation, stockwatering, and domestic uses in Deer Creek Subunit.

Tunnel Ditch was constructed in 1852 for mining purposes in the vicinity of Rough and Ready. Shortly after the formation of Nevada Irrigation District, the ditch was purchased from the Excelsior Water and Mining Company. Additional supply is received for this diversion from irrigation tail water and spill from Rough and Ready Ditch.

Placer Division

The Placer Division of Nevada Irrigation District encompasses all of the district in Placer County. In 1957 approximately 14,300 acres were irrigated in the division by the district in addition to supplementing individual irrigation diversions by releasing to natural streams. Domestic and industrial water service was also supplied within the division.

Van Giesen Dam, Gold Hill Canal, and Auburn Ravine Canal. The water supply developed by these facilities is augmented by water from the Mountain Division delivered through the Pacific Gas and Electric Company's power system. Deliveries by Pacific Gas and Electric Company are made at six locations. These deliveries are from Wise Canal through the Rock Creek North Ditch, from Fiddler Green Canal through the Ophir Pipe and Edgewood Pump, from two spills from South Canal to Auburn Ravine, and from releases down the Bear River from the head of the Bear River Canal. This water is in exchange for water delivered to Pacific Gas and Electric Company through the Bowman-Spaulding Conduit at Spaulding Powerhouse No. 3.

Water rights of the division fall into two categories.

The first are based on appropriation applications filed with
the State on all of the projects constructed by the district
since its organization. The second are claims of appropriation
by the predecessor companies from whom the district purchased
water systems. The principal system in the latter category is the
Gold Hill Canal system. This facility was purchased from

Pacific Gas and Electric Company, and includes basically the Gold Hill, Auburn Ravine, and Camp Far West Canals and their various laterals and extensions. Claimed rights for these systems are for 22 cubic feet per second from the Bear River at the Gold Hill diversion; 10 cubic feet per second from Auburn Ravine at the Auburn Ravine Canal; and for all of the water available from various streams at minor diversion points located within the area of the Gold Hill system.

Following is a description of each diversion in the Placer Division:

Van Giesen Dam and Lake Combie (Diversion 13N/8E-2E1).

Van Giesen Dam, which forms Lake Combie with a storage capacity of 9,600 acre-feet, was constructed by Nevada Irrigation District in 1928 to store and regulate flow of the Bear River. In addition to these functions, the reservoir re-regulates water from Pacific Gas and Electric Company released to the Bear River at the head of the Bear River Canal. Water stored in the reservoir is used to supply Magnolia No. 3 Ditch and Gold Hill Canal.

Magnolia No. 3 Ditch (Diversion 13N/8E-2E2). Magnolia No. 3 Ditch was constructed by Nevada Irrigation District in 1934 to divert water from Lake Combie to the north of the Bear River for irrigation, stockwatering, and domestic uses in the Wolf Creek and Combie Subunits. Diversion is accomplished by means of either a hydraulic ram or an electric pump, each located at the dam, to raise the water to the ditch. The earth ditch, with its principal lateral, Hoefer Ditch, extends for 9 miles to the north of Lake Combie. Water that is spilled from the hydraulic ram returns to the Bear River and is rediverted by the Gold Hill Canal downstream.

Gold Hill Canal (Diversion 13N/8E-3H1). Gold Hill Canal transmits water diverted from Bear River below Van Giesen Dam to the area north and west of Auburn. It has a length of 96.5 miles, made up of earth ditch, pipe, and wood flume. This length includes its principal laterals, the Combie-Ophir Canal, Lone Star Canal, Magnolia No. 1 Ditch, Gold Blossom Canal, Valley View Canal, and Dudley Canal.

Gold Hill Canal was constructed by the South Yuba Water Company prior to 1901 for mining purposes in the Gold Hill area; but as mining uses decreased, farmers in the area purchased the water for their crops. The canal was purchased in 1933 from Pacific Gas and Electric Company, successor of the South Yuba Water Company.

Water diverted through the Gold Hill Canal is for irrigation, domestic, and stockwatering uses in the Wolf Creek, Combie, Coon Creek, Auburn Ravine, and Camp Far West Subunits. The major portion of its use is in the Placer Division, although a portion of the water which is transmitted through Magnolia No. 1 Ditch is used in the Nevada Division north of the Bear River in Nevada County. A portion of the water released to the Valley View Canal is combined with water from the Camp Far West Canal delivered through the Whisky Diggins Canal for use in Coon Creek Subunit.

Auburn Ravine Canal (Diversion 12N/7E-14A1). Auburn Ravine Canal diverts from Auburn Ravine, at a point to the west of Auburn, to supplement the Gold Hill Canal. From the junction of this canal and Gold Hill Canal, water is distributed by the

Lincoln and Doty Ravine North Ditches, Gladding-Comstock Ditch, and the lower portion of the Gold Hill Canal. Additional supply is received from the Coon Creek Pump diverting to the Gladding-Comstock Ditch. These ditches supply water for irrigation, stockwatering, and domestic uses.

A large portion of the amount diverted from Auburn
Ravine is supplied by two deliveries from Pacific Gas and Electric Company's South Canal by spill to Auburn Ravine.

Doty's South Ditch (Diversion 13N/6E-36G1). Doty's South Ditch diverts from Doty Ravine at a point to the northeast of Lincoln, and serves irrigated areas north and northwest of Lincoln in conjunction with water from the Gold Hill Canal. An interchange ditch, located approximately one mile downstream from the diversion point, allows water to be diverted from Doty's South Ditch into the Gold Hill Canal or vice versa.

Water diverted from Doty Ravine by this diversion is primarily return water from irrigation upstream.

Camp Far West Canal (Diversion 13N/7E-13N1). Camp Far West Canal diverts from Coon Creek at a point northwest of Auburn for irrigation, stockwatering, and domestic uses in the Coon Creek and Camp Far West Subunits. Approximately 0.5 mile downstream from the head of the ditch, the Whisky Diggins Canal splits off and supplements the Valley View Canal lateral of the Gold Hill Canal.

The Camp Far West Canal was originally constructed for mining purposes, but in 1933, when Nevada Irrigation District purchased the canal from Pacific Gas and Electric Company, it was used entirely for irrigation.

Due to the relatively low flow of Coon Creek in the summer months, additional supply is delivered to this diversion via Orr Creek and Rock Creek. Deliveries are made through Gold Hill Canal at the Orr Creek Dam, a part of the Gold Hill Canal facilities, and through Rock Creek North Ditch from the Pacific Gas and Electric Company's Wise Canal.

Coon Creek Pump (Diversion 13N/6E-22A1). Coon Creek
Pump diverts from Coon Creek into the Gladding-Comstock Ditch,
which is an extension of the Auburn Ravine and Gold Hill Canals.
The flow of water in Coon Creek at the point of diversion is
sustained primarily by return water from irrigation upstream.

Pacific Gas and Electric Company

The Pacific Gas and Electric Company was incorporated on October 10, 1905. In the Yuba-Bear Rivers Hydrographic Unit area the company succeeded the California Gas and Electric Corporation. The corporation had purchased the Bay Counties Power Company on December 6, 1901 and the South Yuba Water Company on January 4, 1905. These companies were actively associated with most of the development of the present Pacific Gas and Electric Company water and power systems in the Yuba-Bear Rivers Hydrographic Unit.

The South Yuba Water Company had its beginning about 1850 in three small companies. These were the Rock Creek Water Company, Coyote and Deer Creek Water Company, and South Yuba Snow Mountain Ditch Company. In 1854 these companies consolidated under the name of Rock Creek, Deer Creek, and South Yuba Canal Company. The name was changed, along with subsequent incorporations of other small water companies, to the South Yuba Canal Company in 1870; to South Yuba Water and Mining Company in 1877; and finally to South Yuba Water Company in 1890.

During this period, and up to the time of its purchase by
California Gas and Electric Corporation, the construction by
the company and its predecessors included South Yuba Canal,
Boardman Canal, the original Spaulding Dam, and most of the
presently reported diversions from the South Yuba and Bear
Rivers and their tributaries. In 1890 the Bear River Canal
was purchased from the Bear River and Auburn Water and Mining
Company by the South Yuba Water Company. About 1895 the company
had an excess of usable water due to the decline of the hydraulic
mining industry, and three powerplants were constructed by a
subsidiary, the Central California Electric Company, to provide
a use for this excess water. Today only one of the three,
Alta Powerhouse, remains in commission.

The Bay Counties Power Company had its beginning in June 1900, when it purchased the Yuba Powerhouse in Browns Valley, Colgate Powerhouse, Colgate Flume, and Lake Francis Dam, from A. S. Morally. The Yuba Powerhouse was built by John Martin in 1897, and was successively sold to Yuba Power Company later in 1897, to Yuba Electric Power Company in February 1899, and to A. S. Morally in May 1900. The powerplant was in operation until 1911. The Colgate Powerhouse, the 7.6-mile Colgate Flume which was located just above and parallel to the old Browns Valley Irrigation District flume, and Lake Francis Dam were constructed by the Yuba Electric Power Company during the period February 1899 to May 1900.

During the first seven years following the organization of Pacific Gas and Electric Company, the only water development

for power was the construction of Deer Creek Powerhouse on Deer Creek at the terminus of the South Yuba Canal. In 1912, however, construction was started on the New Spaulding Dam and Drum Canal. Subsequently, Halsey and Wise Powerhouses were constructed on the Bear River and Wise Canals, respectively. Two other powerplants, Bullards Bar and Narrows, were constructed in 1924 and 1942, respectively, at dams already constructed for debris control, and in 1943 Dutch Flat Tunnel and Dutch Flat Powerhouse were placed in operation. Subsequent to the powerplant construction at Bullards Bar, the dam was purchased by the company. The Narrows Powerhouse utilizes the pressure head developed at Englebright Dam, which is owned by the California Debris Commission.

Many of the ditches acquired by Pacific Gas and Electric Company through the South Yuba Water Company were serving areas within the boundaries of Nevada Irrigation District at the time of its formation. The district's need for distribution facilities resulted in the sale to the district of all the company's irrigation ditches in Nevada County, and the Gold Hill and Ophir Ditch systems in Placer County. The sales of the facilities in Nevada County and Placer County were in 1926 and 1933, respectively. The Ophir system has been modified, and now comprises essentially the facilities associated with the Combie-Ophir Canal, a branch of the Gold Hill Canal. In 1924, shortly after the formation of Nevada Irrigation District, a contract between the district and the company was negotiated wherein water developed by the district would be routed through the company's power system and subsequently returned to the district. This contract was

subsequently modified to meet new requirements of the district.

This transfer of water is accomplished by diverting water developed by the district in the North and Middle Yuba Rivers watershed to Spaulding Powerhouse No. 3, which releases to Lake Spaulding.

From Lake Spaulding the water is released for additional power generation by routing through either Spaulding Powerhouse No. 1,

Drum, Dutch Flat, Halsey and Wise Powerhouses; or through Spaulding Powerhouse No. 2 to Deer Creek Powerhouse. Water which is diverted through Spaulding Powerhouse No. 1 is returned to the district at six locations for use in Placer County, and that diverted through Spaulding Powerhouse No. 2 is returned at the Deer Creek Powerhouse tailrace for use in Nevada County.

Pacific Gas and Electric Company diverts water under appropriations made by the company and its predecessors before and after the enactment of the Water Commission Act. The company's applications for appropriation made in accordance with the act are included in Table C-1.

For purposes of describing the company's facilities in the Yuba-Bear Rivers Hydrographic Unit, diversions are divided into three categories. These are the North Yuba River Power System, the South Yuba and Bear Rivers Power System, and the Placer Water System. The North Yuba River Power System is in the company's Colgate Division, and the South Yuba and Bear Rivers Power System and the Placer Water System are in the Drum Division.

The main features of these systems are depicted in detail on sheets 1 through 23 of Plate 2. In addition, the South Yuba and Bear Rivers Power and the Placer Water Systems are summarized on Plate 5.

North Yuba River Power System

The North Yuba River Power System includes Pacific Gas and Electric Company's diversions on the North Yuba River and its Narrows Powerhouse on the Yuba River. Diversion facilities located within this system divert water solely for the production of hydroelectric power.

Following are discussions of the diversion facilities within this system:

Bullards Bar Dam and Reservoir (Diversion 18N/7E-24D1).

Bullards Bar Reservoir, with a capacity of 31,490 acre-feet, was constructed on the North Yuba River in 1923-24 as a debris control structure to provide the required settling basin for upstream hydraulic mining. Construction of the dam was undertaken by a group of miners, headed by H. P. Whitney, to replace a smaller inadequate dam that was constructed in 1921. To take advantage of the storage facilities and hydraulic head provided by the new dam, Pacific Gas and Electric Company constructed the Bullards Bar Powerhouse at the foot of the dam, and diverted water through the powerhouse under a lease agreement with its owners. Later the company purchased the dam and reservoir.

The present installed generating capacity of the powerplant is 6,500 kilowatts. The water released from the reservoir through the powerplant is rediverted through Colgate Tunnel downstream.

Colgate Tunnel and Powerhouse (Diversion 18N/7E-25F1).

Colgate Tunnel and the diversion dam at the head of the tunnel were constructed by Pacific Gas and Electric Company in 1941 to

replace North Yuba Dam and Colgate Flume which supplied Colgate Powerhouse. A portion of the water diverted through the tunnel is used to supply Browns Valley Ditch under an agreement with Browns Valley Irrigation District. This is accomplished by releasing water to the ditch near the head of the penstock to the powerplant. This agreement and the history of these facilities are further discussed in the description of the facilities of Browns Valley Irrigation District.

In 1946 the original Colgate Powerhouse was damaged by fire, and was replaced in 1949 by a new plant. The present generating capacity of the plant is 24,000 kilowatts. Water for this diversion is regulated by storage in Bullards Bar Reservoir upstream.

Lake Francis (Diversion 17N/7E-5J1). Lake Francis was constructed in 1901 by the Yuba Electric Power Company to provide a supplemental water supply for Colgate Powerhouse. At that time, water was diverted by means of a wood stave pipe from the lake to the head of the powerplant penstock. When the Colgate Tunnel was constructed in 1941, the head of the penstock was elevated so that it was impossible to divert water through the pipe from the lake to the penstock. Therefore an agreement was made with Browns Valley Irrigation District to deliver Lake Francis water to the district in lieu of a similar amount of North Fork Yuba River water which was formerly delivered to the district through Colgate Flume. The lake water is delivered to the district by releasing it to Dobbins Creek, from which it is diverted into the Browns Valley Ditch.

Narrows Dam and Powerhouse (Diversion 16N/6E-14Q1).

Narrows Powerhouse was constructed by Pacific Gas and Electric Company in 1942 to take advantage of the releases from the previously constructed Narrows Dam, which forms Englebright Reservoir. This dam was constructed by the California Debris Commission in 1941. Water is taken from the reservoir through a tunnel constructed around the dam to the powerplant. The present installed generating capacity of the powerplant is 9,350 kilowatts.

All water stored in Englebright Reservoir and diverted through the powerplant is taken under appropriative water rights filed with the State by Pacific Gas and Electric Company.

South Yuba and Bear Rivers Power System

The South Yuba and Bear Rivers Power System includes upstream water storage facilities on the South Yuba River and the facilities to deliver this water to the downstream hydroelectric powerplants. Water diverted through this system is also the primary supply of the Placer Water System. In addition to water that is stored and diverted by Pacific Gas and Electric Company, water that is developed by Nevada Irrigation District is routed through the system for the generation of power.

Following are discussions of the diversion facilities within this system:

Lake Spaulding and Spaulding Powerhouse Nos. 1, 2, and 3 (Diversion 17N/12E-20H1). The original Spaulding Dam on South Yuba River was constructed by the South Yuba Water Company in 1892-93 to supplement the water supply to the South Yuba Canal.

The present dam, located about one-half mile downstream from the original structure, was constructed to a height of 225 feet in 1912-13. In 1916 the dam was raised to 260 feet, and in 1919 to its present height of 275 feet.

The reservoir created by Spaulding Dam is the main storage and regulatory facility in the South Yuba and Bear Rivers Power System. Water for the reservoir is supplied by runoff of the South Yuba River, releases from upstream storage facilities on the South Yuba River, and releases from Spaulding Powerhouse No. 3. Spaulding Powerhouse No. 3, with a generating capacity of 5,200 kilowatts, is supplied by the Nevada Irrigation District's Bowman-Spaulding Conduit, which transports water developed by the district in the Middle and North Yuba Rivers watersheds.

Water is stored in Lake Spaulding and released as required through a short tunnel at the left abutment of the dam to either Spaulding Powerhouse No. 1 or No. 2. Water that enters Spaulding Powerhouse No. 1 flows into the Drum Canal at the powerplant tailrace, while that released through Spaulding Powerhouse No. 2 enters the South Yuba Canal. The installed generating capacities of these powerplants are 6,400 kilowatts at Spaulding No. 1 and 3,370 kilowatts at Spaulding No. 2.

Upstream Reservoirs Releasing to Lake Spaulding.

Pacific Gas and Electric Company has a number of reservoirs

located upstream from Lake Spaulding which are used to store

winter runoff for subsequent release during the summer. These

are: Blue Lake, Fuller Lake, Rucker Lake, Upper and Lower Feeley

Lakes, Middle and Lower Lindsay Lakes, Lake Culbertson, Upper

Rock Lake, Lake Fordyce, Meadow Lake, Lake Sterling, White
Rock Lake, Lake Van Norden, Kidd Lake, and Upper and Lower
Peak Lakes. Water from Blue Lake, Fuller Lake, Rucker Lake,
Feeley Lakes, Lindsay Lakes, Lake Culbertson, and Upper Rock
Lake is released to the Bowman-Spaulding Conduit and reaches
Lake Spaulding through Spaulding Powerhouse No. 3. The remaining lakes are located on tributaries of the South Yuba River upstream from Lake Spaulding, and water is released directly thereto.

The aggregate capacity of these reservoirs is 68,470 acre-feet, of which a total of 46,660 acre-feet is impounded in Lake Fordyce. Lake Fordyce Dam was constructed in 1873-81 by the South Yuba Canal Company, and was enlarged in 1914 to a height of 140 feet by Pacific Gas and Electric Company. Lake Van Norden Dam was constructed by the company in 1916. Dams at all other reservoirs were constructed by predecessors of the South Yuba Water Company.

Prior to construction of Bowman-Spaulding Conduit by Nevada Irrigation District, water from reservoirs tributary thereto was delivered to Lake Spaulding through the Fall and Texas Creeks Ditch. This ditch was abandoned when the Bowman-Spaulding Conduit was constructed.

South Yuba Canal and Deer Creek Powerhouse (Diversion 17N/12E-20J2). The South Yuba Canal was constructed in 1865 by the South Yuba Canal Company to provide additional water to the Bear River Canal, and to the mines in the Grass Valley and Nevada City areas. After the canal was acquired by Pacific Gas and Electric Company, the Deer Creek Powerhouse was constructed.

The plant was commissioned in 1908 as the first hydroelectric powerplant to be constructed by the new organization.

The South Yuba Canal conveys water which is released from Lake Spaulding through Spaulding Powerhouse No. 2 to Deer Creek Powerhouse on Deer Creek. The water is discharged from the powerplant to Nevada Irrigation District. The present generating capacity of the powerplant is 5,500 kilowatts.

A portion of the water diverted at the head of the canal is spilled to the Bear River for rediversion to Boardman Canal or Dutch Flat Tunnel and Bear River Canal. The Boardman Canal normally receives this water.

Drum Canal and Powerhouse (Diversion 17N/12E-20J1).

Drum Canal and Drum Powerhouse were constructed in 1912-13 when Spaulding Dam was built. The construction was part of Pacific Gas and Electric Company's expansion to meet new demands for power service. Water was first delivered to the powerplant on November 26, 1913.

Water conveyed by Drum Canal is released from Lake Spaulding through Spaulding Powerhouse No. 1. The canal has a length of 8.5 miles to the Drum Powerhouse, which is located on the Bear River and has a generating capacity of 48,000 kilowatts.

Water discharged from Drum Powerhouse to the Bear River is rediverted downstream, first to the Dutch Flat Tunnel and then to the Bear River Canal. Water may also be released from the powerplant forebay to Canyon Creek for rediversion to the Boardman Canal system.

Additional water supply from Drum Canal is received at a point near Emigrant Gap through the Lake Valley Canal, which conveys water from the North Fork of North Fork American River. This is an import to the Yuba-Bear Rivers Hydrographic Unit which is discussed in the section of this report entitled "Imports and Exports."

Dutch Flat Tunnel and Powerhouse (Diversion 16N/11E-17E1).

Dutch Flat Tunnel and Dutch Flat Powerhouse were constructed in 1942-43 and commissioned on March 29, 1943. The system was constructed to utilize the hydraulic head available between the Drum Powerhouse tailrace and the Bear River Canal diversion dam. The water diverted to the tunnel is supplied almost in its entirety by the releases from Drum Powerhouse. The present generating capacity of the powerplant is 22,000 kilowatts.

Bear River, Wise, and South Canals; and Halsey and Wise Powerhouses (Diversion 15N/9E-22Q1). The Bear River Canal was constructed in 1852 to convey water from the Bear River near Colfax to near Auburn. It was one of the first canals in Placer County, and water was diverted for mining uses north of Auburn. This system was expanded in the late 1890's, when the South Yuba Water Company constructed powerplants at Newcastle and Auburn. These powerplants were closed in 1912 and 1914, respectively.

In 1916 the company constructed Halsey Powerhouse at the terminus of the present Bear River Canal, and in 1917 Wise Canal and Powerhouse were constructed to utilize the hydraulic head available between Halsey Powerhouse afterbay

and Auburn Ravine. In 1919 South Canal was constructed to convey the water from Wise Powerhouse tailrace to the American River. The generating capacity of each of these powerhouses is 12,000 kilowatts.

At present, the Bear River Canal conveys water to generate power in Halsey and Wise Powerhouses, to supply a portion of the Placer Water System, and to return a portion of the Nevada Irrigation District's mountain water supply.

A large portion of the water conveyed in the canal is South Yuba River water discharged from Drum Powerhouse.

The principal releases to the Placer Water System are made from Bear River Canal to the Ragsdale Tunnel and Upper Bowman Canals; from Wise Canal to the Fiddler Green and Lower Bowman Canals; and from South Canal to the Dutch Ravine, Lower Greeley, and Boardman Canals.

Deliveries to Nevada Irrigation District are made to Ophir Pipe and Edgewood Pump from the Fiddler Green Canal, to Rock Creek North Ditch from the Wise Canal, and to Auburn Ravine at two spills from the South Canal. Water is also released down the Bear River at the Bear River Canal diversion dam for rediversion by the district.

Alta Powerhouse. Alta Powerhouse is located on Towle Canal, a part of the Placer Water System. The powerplant was constructed by the South Yuba Water Company in 1902 to utilize the hydraulic head available in the water supply system. The present generating capacity of the powerplant is 2,000 kilowatts.

Placer Water System

The Placer Water System provides water service to most of the area along Highway 40 between Roseville and Baxter. The system served 13,466 acres of irrigated land and the urban areas listed in Chapter II of this report in the Yuba-Bear Rivers Hydrographic Unit in 1957. In addition, most of the water supplied to the American River watershed north of the North Fork American River was provided by this sytem.

The Placer Water System comprises the Boardman Canal system and those portions of the Bear River Canal system which distribute irrigation, domestic, municipal, and industrial water. The portion of the Boardman Canal system above Lake Alta and Alta Powerhouse is operated as part of Pacific Gas and Electric Company's power system.

The Boardman Canal was constructed in 1893 by the South Yuba Water Company. At that time irrigation was beginning to replace the declining hydraulic mining industry as a major water use.

At present, the Boardman Canal system comprises several connected canals of varying capacities, and numerous distribution laterals. Water is first diverted from the Bear River at 17N/11E-36Dl, and taken through the Upper Boardman Canal to Canyon Creek in the American River watershed. The water passes down the creek for a short distance and is rediverted into Towle Canal (import diversion 16N/11E-21El) which conveys it to Alta Powerhouse. From the powerplant to Lake Alta the canal is known as the Boardman Canal (lower). From Lake Alta

to Monte Vista it is called the Cedar Creek Canal, and from Monte Vista to its terminus at the Roseville Regulator it is again known as the Boardman Canal. Exclusive of laterals, the canal system is 73.7 miles in length from the Bear River to the Roseville Regulator.

The Boardman Canal system receives additional water at several points in its upper reaches. Canyon Creek runoff is diverted at Pulp Mill Canal (16N/10E-36Ql) and also at the Towle Canal diversion point. Pitman Ravine runoff is diverted at 16N/11E-9Jl, and Little Bear River runoff may be diverted at the Alta Powerhouse afterbay (16N/10E-25Pl). Water is also received from Drum Canal by releases from Drum Forebay to Canyon Creek for rediversion into Towle Canal. The lower portion of the Boardman Canal system is recharged from the Bear River Canal system at several points.

Most of the water deliveries from the Boardman Canal system are made in the Auburn-Rocklin area. The principal laterals are Shirland, Greeley, Red Ravine, and Caperton Canals.

Those portions of the Bear River Canal system which are a part of the Placer Water System are principally the Ragsdale Tunnel Canal, Bowman Upper Canal, Bowman Lower Canal, Fiddler Green Canal and its laterals Fiddler Green-Boardman Diversion Canal and Lower Banvard Canal. Recharge to the Boardman Canal is effected at Ragsdale Tunnel Canal and Fiddler Green-Boardman Diversion Canal. In addition, releases are made from South Canal to Caperton Canal (Via Dutch Ravine Canal), Boardman Canal, and Lower Greeley Canal.







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